# BEST AVAILABLE COPY



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vigniia 22313-1450 www.uspto.gov

APPLICATION NUMBER FILING OR 371 (c) DATE FIRST NAMED APPLICANT ATTY. DOCKET NO./TITLE 10/028,573 12/19/2001 Eric Klingler 10194.8032.US01

**CONFIRMATION NO. 3290** 

54499 WOODCOCK & WASHBURN LLP ONE LIBERTY PLACE 46TH FLOOR PHILADELPHIA, PA 19103

\*OC00000018778805\*

Date Mailed: 05/12/2006

### NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/02/2006.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

MONICA L YOUNG OIPE (703) 308-9010

**OFFICE COPY** 



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE UNITED STATES DEPARTMENT OF COMME United States Pattent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/028,573	12/19/2001	Eric Klingler	10194.8032.US01

**CONFIRMATION NO. 3290** 

\*OC000000018778771\*

30083 PERKINS COIE LLP/AWS P.O. BOX 1247 SEATTLE, WA 98111-1247

Date Mailed: 05/12/2006

### NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/02/2006.

The Power of Attorney to you in this application has been revoked by the assignee who has intervened as rovided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).
40)VG+1 VOIDIG
MONICA L YOUNG DIPE (703) 308-9010

**OFFICE COPY** 



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Eric Klingler and Jeffrey Tedeschi

Confirmation No.: 3290

**Application No.: 10/028,573** 

Filing Date: December 19, 2001

For: SYNCHRONIZATION OF ENCRYPTION IN A WIRELESS

**COMMUNICATION SYSTEM** 

### VIA HAND DELIVERY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### STATEMENT UNDER 37 CFR § 3.73(b)

Cingul	ar Wireless, II, LLC, a limited liability company
states 1	that it is:
$\boxtimes$	the assignee of the entire right, title, and interest; or
	an assignee of an undivided part interest
in the j	patent application/patent identified above by virtue of either:
А. 🗌	An assignment from the inventor(s) of the patent application/patent identified above.
	1. The assignment was recorded in the Patent and Trademark Office at Ree, Frame(s).
	2. The assignment has not yet been recorded. A copy of the assignment is attached.
	A chain of title from the inventor(s), of the patent application/patent identified above, current assignee as shown below:
	i. From: Eric Klingler and Jeffrey Tedeschi To: AT&T Wireless Services, Inc. The document was recorded in the Patent and Trademark Office

at Reel 012905, Frame(s) 0798.

- ii. From: New Cingular Wireless Services, Inc. (f/k/a AT&T Wireless Services, Inc.) To: Cingular Wireless, II, LLC. The document was sent to the United States Patent and Trademark Office for recordation on September 27, 2005. A copy thereof is attached
- Additional documents in the chain of title are listed on a supplemental sheet.
- Copies of assignments or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: May 1, 2006

Signature

Name: Christopher M. Arena

Reg. No.: 35,429

Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia, PA 19103

Telephone: (215) 568-3100 Facsimile: (215) 568-3439

) WW

70932 MAY 0 2 2006

PTO/SB/80 (04-05)
Approved for use through 11/30/2005. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperway Duction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

### OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

			1 - 41 - 14 - 420 - 11		
I hereby rev 37 CFR 3.7	voke all previous powers of attorney 73(b).	given in the appl	ication identified in	n the attached state	ement under
I hereby ap	point:	<u></u>			·
<b>✓</b> Practiti	oners associated with the Customer Number:	:	54499	ļ	
OR Practiti	oner(s) named below (if more than ten patent	t practitioners are to t	e named, then a custo	omer number must be u	sed):
	Name	Registration Number	Na	ame	Registration Number
					<del> </del>
-		<del>                                     </del>			+
any and all pa	) or agent(s) to represent the undersigned be atent applications assigned only to the unders form in accordance with 37 CFR 3.73(b).	fore the United States signed according to the	s Patent and Tradema ne USPTO assignment	rk Office (USPTO) in co records or assignment	nnection with documents
	ge the correspondence address for the applic	ation identified in the	attached statement un	nder 37 CFR 3.73(b) to:	
The	e address associated with Customer Number	:			
OR					
Firm	or dual Name				
Address					
City		State		Zip	
Country					
Telephone			Email		
<u> </u>			1		
	ame and Address:				
	lar Wireless, II, LLC				
	Glenridge Connector				
Atlant	a, Georgia 30342				
A copy of	this form, together with a statement t	under 37 CFR 3.73	(b) (Form PTO/SB/	96 or equivalent) is	required to be
filed in se	ch application in which this form is us tioners appointed in this form if the a	sed The stateme	nt under 37 CFR 3.	(3(b) may be comp	ieted by one or
the practif	tioners appointed in this form if the a identify the application in which this	Power of Attorney	is to be filed.		
		NATURE of Assigne	e of Record	n behalf of the assigned	: 
Signature	12 Cash			Date February	
Name	Carol Tacker			Telephone	
Title	Vice President, Assistant General (	Counsel, Corpora	te Secretary	retain a henefit by the oub	the making in the 43 n de-
		- 4 4 00 The informatio	a is convicad to obtain or I	retain a benefit by the fitth	uc watch is in lite (80%

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

70932

MAY 0 2 2006

Form P1031595 (Rev. 09/04) OMB No. 3951-0027 (exp. 6/30/2005 10-07-2005



U.S. DEPARTMENT	OF COMMERCE
United States Patent and	Trademark Office

.1030964	122
To the Director of the U.S. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
AT&T Wireless Service, Inc.	Name: Cingular Wireless II, LLC.
	Internal Address: Suite 1700
Execution Date(s) 10/27/2005; 4/11/2005	Street Address: 5565 Glenninge Conn.
Additional name(s) of conveying party(les) attached? Yes V No	
3. Nature of conveyance:	
Assignment Merger	City: Atlanta
Security Agreement ' Change of Name	State: Georgia
Government Interest Assignment	Country: usa Zip: 30342
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? Yes V No
	document is being filed together with a new application.  B. Patent No.(s)
A. Patent Application No.(s) See Attached Sheets	See Attached Sheets
See Allacieu Sheets	See Attached Sheets
	See Attached Sheets  OPRIFIE  Hached? Vyes No
Additional numbers at	
5. Name and address to whom correspondence	6. Total number of applications and patents involved: 513
concerning document should be mailed:	- U
Name: Cinquiar Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 20,520
Internal Address: Attn: Linda Giles	Authorized to be charged by credit card
#1725A	Authorized to be charged to deposit account
Street Address: 5565 Glenridge Connector	Enclosed  None required (government interest not affecting title)
City: Atlanta	8. Payment Information
State: Georgia Zip: 30342	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: <u>404-236-6720</u>	b. Deposit Account Number <u>502450</u>
Fax Number:	Authorized User Name Coulter C. Henry
Email Address: linda.glles@cinqular.com	, idd on the desired services of the services
9. Signature:	9/27/2005
Signature	Date
Coulter C. Henry; Reg. No.: 51,121	Total number of pages including cover sheet, attachments, and documents:

## Patents

		2225444	6224499
5197092	5889814	6085114	6334188
5541977	5896425	6092110	6343120
5611176	5903845	6118778	6359923
5638081	5905955	6122503	6363127
5641141	5907565	6125122	63 <b>739</b> 31
5659578	5907801	6134261	6377783
5675590	5909641	6141545	6377787
5675629	5923700	6144851	638 <b>908</b> 7
5722084	5930362	6157633	639 <b>30</b> 14
5724660	5931965	6158008	639 <b>3283</b>
5732354	5933421	6160839	6400940
5732383	5933778	6167261	6404388
5737707	5940740	6167274	640 <b>50</b> 32
5754952	5946615	6169895	640 <b>50</b> 41
5784417	5950125	6175555	6408016
5790551	5950134	6185258	641 <b>18</b> 07
5802470	5953652	6188736	641 <b>830</b> 7
5809083	5956636	6188897	641 <b>8318</b>
5819173	5960339	6188899	6427 <b>07</b> 1
5832367	5960340	6195532	643 <b>039</b> 6
5838728	5966642	6 <b>20</b> 1797	6 <b>44222</b> 2
5845198	5974311	6219542	6445716
5845207	5991410	6223042	64 <b>459</b> 12
5854984	5995830	6229885	645 <b>68</b> 43
5864543	5995834	6230009	6459740
5865503	6002664	6239719	645 <b>98</b> 97
5870722	6002935	6256518	647 <b>004</b> 3
5872814	6006087	<b>62567</b> 35	647 <b>01</b> 82
5875187	6014559	6282420	647 <b>362</b> 3
5875394	6035193	6 <b>28</b> 2421	647 <b>737</b> 6
5875395	6039624	6 <b>298</b> 235	648 <b>0522</b>
5875398	6047200	6311064	648 <b>072</b> 0
5878328	6052598	6314303	64 <b>904</b> 45
5884300	6064875	6317684	6491528

## **Patents**

6493430	6636749	6799033
6496699	6640096	D363281
6496700	6647418	D383463
6498930	6650893	D389140
6501803	6650897	D398612
6501951	6662006	5732360
6507866	6675211	5911120
6529593	6681118	6735432
6529726	6687374	6311053
6553237	6697983	64 <b>04</b> 753
6560209	6700866	6754506
6560455	6704565	5394467
6567671	6707894	5410597
6570983	6725033	5455964
6571094	6741635	5463678
6574292	6744383	5627891
6577723	6748209	5652792
6578173	6751475	6393281
6580914	6754490	6449287
6584144	6760778	D361568
6584175	6765869	D363068
6584317	6765870	D366482
6584321	6768714	D370910
6587700	6771634	D371553
6590533	6771961	5668993
6591098	6775270	5724584
6600776	6775329	5999916
6603966	6775544	6282519
6603984	6775549	6332167
6611692	6778527	6658488
6621851	6782039	67 <b>0822</b> 6
6628194	6782259	
6628935	6785258	
6630883	6795702	

# Patent Applications

10/455125	09/314330	09/752487	10/253403
10/434385	09/479066	10/347504	10/324494
08/571050	10/644641	10/024833	10/324354
10/805247	09/802872	10/086192	10/324159
10/814574	09/884724	10/085491	10/324870
10/647105	09/884730	10/090265	10/325408
10/406912	10/819944	10/039577	10/700301
10/082402	09/476461	09/995327	60/423224
09/168919	09/580689	60/337892	10/445173
10/147408	09/745268	10/162304	10/364421
09/828859	09/306761	10/473926	10/346497
10/866994	10/890298	10/091047	10/324984
08/882804	09/745209	09/972572	10/325566
10/041500	09/688401	10/630646	10/325270
09/896481	09/739044	10/036151	10/325032
10/802492	09/707671	10/036109	10/325322
10/214315	09/703858	09/893869	10/281 <b>6</b> 51
09/535340	09/899956	08/868407	10/617437
10/099992	09/879351	10/456052	10/324613
10/206963	09/867989	09/900773	10/324667
10/241432	10/409770	10/080988	10/410662
10/419098	09/879349	10/160656	10/410663
09/825894	09/714036	10/017629	10/612970
10/120548	09/714035	10/209754	10/833412
10/307668	09/714034	10/160695	10/609043
10/673439	09/714033	10/259558	10/383976
10/389010	09/714032	10/690468	09/999048
08/994831	09/714031	10/155917	10/838553
10/017042	09/968528	10/295233	10/873567
09/474138	10/862773	10/840810	09/55 <b>7672</b>
10/426046	10/885427	10/282742	10/046243
09/648947	09/742313	10/282909	10/177461
10/884986	10/322218	10/279170	10/176643
09/315088	09/971080	10/634977	09/53 <b>536</b> 5

# Patent Applications

09/546794	60/519947	10/725468	10/336640
10/414576	10/821325	10/457406	10/336627
09/670286	10/867957	09/335127	10/662752
09/502655	60/539780	10/790070	10/462948
10/120710	60/549920	09/724577	09/920903
09/511168	10/881672	09/589241	10/885427
09/474839	60/588307	09/921015	08/850096
09/665780	60/588110	10/943500	09/063765
10/028573	60/590185	09/467712	09/204048
10/767246	60/590229	09/467653	10/005095
09/618653	10/365116	09/723648	10/334343
10/036315	60/356579	09/853137	09/326088
09/616128	60/356578	09/917821	10/939366
09/879350	09/4 <b>0</b> 6278	10/895188	10/850109
09/874570	10/011554	09/991549	09/664571
09/900779	09/734157	09/989311	09/591043
09/900777	09/945868	08/791860	09/593215
09/878555	09/801635	09/784901	09/593547
10/627192	09/783843	10/006936	09/592961
60/399042	09/8 <b>795</b> 75	09/850181	09/594467
10/116160	09/451579	09/855117	10/929732
10/751672	10/211929	10/140135	09/723421
10/615892	10/622106	08/528292	10/922109
10/773555	09/332497	08/925446	09/795630
10/685616	10/852215	10/267147	09/724774
60/520073	08/526066	10/871289	09/982952
10/685614	08/526027	10/857666	10/131947
60/543952	10/853246	10/391895	10/662639
10/776507	10/197608	09/987775	10/662656
60/557153	10/949313	10/199100	10/950034
10/821608	10/921822	10/334451	10/850888
10/822187	10/937300	10/326700	10/938569
10/763862	09/135348	10/336227	10/918697
60/562785	09/135086	10/336229	10/941805

# Patent Applications

10/941247

10/933677

10/940576

10/939103

29/213592

10/367981

**Execution Copy** 

### PATENT ASSIGNMENT AGREEMENT

THIS PATENT ASSIGNMENT AGREEMENT ("Assignment") is executed by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc., on the one hand, and Cingular Wireless II, Inc., a Delaware corporation ("Assignee"), on the other hand.

WHEREAS, Assignor is the owner of certain patentable inventions, patent applications and patents (as disclosed and set forth in Schedule A; collectively, the "Patents"), which Assignor desires to assign to Assignee; and

WHEREAS, Assignee desires to accept such assignment of the Patents.

NOW, THEREFORE, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

- 1. Assignment of Patents. Effective as of the date hereof, Assignor assigns, transfers and conveys to Assignee, its successors, assigns and legal representatives, all of Assignor's right, title and interest in and to the Patents, all agreements and contracts of Assignor related to such Patents (the "Related Agreements") and the improvements and inventions disclosed in said Patents throughout the world, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions and improvements in Assignee's own name throughout the world including all rights of priority. all rights to publish cautionary notices reserving ownership of said inventions and all rights to register said inventions in appropriate registries. Assignor authorizes and requests the Commissioner of Patents and Trademarks and any foreign registrar or governmental authority to issue all patents on said applications or applications resulting therefrom to said Assignee, as assignee of Assignor's entire interest. Assignor agrees that it will communicate to said Assignee or its representatives any facts known to Assignor respecting said improvements and inventions, and, at Assignee's expense, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said Patents in all countries, and asserts that it will not execute any agreements inconsistent therewith. Assignee acknowledges that Assignor's assignment of any jointly owned Patent identified on Schedule A shall be subject to any rights such joint owner may have in such Patent.
- 2. <u>Assumption</u>. Effective as of the date hereof, Assignee hereby assumes the due and full payment and performance of all of the liabilities and obligations of Assignor under the Related Agreements.
- 3. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the United States of America and of the State of Delaware.

ATL01/11768196v1

**Execution Copy** 

- 4. <u>Successors and Assigns</u>. This Assignment shall inure to the benefit of and be binding on the successors and assigns of both parties.
- 5. Patents Subject to Consent. To the extent that any of the Assignor's right, title or interest in and to the Patents or any other rights, contracts, agreements or assets of the Assignor related thereto and/or liabilities or obligations of Assignor purported to be assigned hereunder may not be assigned, transferred or conveyed to, or assumed by, Assignee without the consent, release, authorization or waiver of any third party and such consent, release, authorization or waiver has not been obtained prior to the date hereof (such Patents and other rights, contracts, agreements and assets, the "Non-Transferable Patents" and such liabilities and obligations, "Non-Transferable Liabilities"), this Assignment shall not constitute an assignment, transfer, conveyance or assumption or an attempted assignment, transfer, conveyance or assumption thereof. In this circumstance, this Assignment shall to the extent possible under the Non-Transferable Patent and applicable law constitute an equitable assignment by Assignor to Assignee of all of Assignor's right, title and interest in and to, the Non-Transferable Patents and Assignee shall be deemed to be Assignor's agent for the purpose of paying, performing or discharging the Non-Transferable Liabilities on behalf of Assignor. Assignor shall take all actions reasonably requested by Assignee to provide Assignee with the benefits of the Non-Transferable Patents, including with respect to the enforcement of rights with respect thereto. Assignee shall, with respect to the Non-Transferable Liabilities, pay, perform or discharge in accordance with their terms all liabilities and obligations of Assignor under the Non-Transferable Liabilities. If Assignor is unable to effect an equitable assignment of any Non-Transferable Patent, Assignor shall transfer to Assignee an amount of cash equal to the fair market value (determined as of the date of this Assignment) of such Non-Transferable Patent.

[signatures on following pages]

**Execution Copy** 

Executed this 27th day of October, 2004.

Assignor: NEW CINGULAR WIRELESS SERVICES, INC. f/k/a AT&T Wireless Services, Inc.

APPROVED:

STATE OF COUNTY OF

On this and day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared 5trohen A. mc Gaw known by me to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc.

Notary Public My Commission Expires:

Skery of Harrey

SHERRY L. GARRETT - NOTARY PUBLIC

County of DeKalb

State of Georgia

My Commission Expires Oct. 16, 2005

**Execution Copy** 

Acknowledged this 27th day of October, 2004.

Assignee: CINGULAR WIRELESS II, INC.

By:

Name:

Title: Vice Prexident-Corporate Development

AFFROVED.

STATE OF GEOGIA

On this 27 day of October, 2004, before me, a Notary Public in and for the State and County foresaid, personally appeared 5+ephen nc Gaw known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

SHERRY L. GARRETT - NOTARY PUBLIC

Sherry & Harrett

County of DeKalb

State of Georgia

My Commission Expires Oct. 15, 2:005

# Schedule A

# **Patents**

All inventions and trade secrets and related rights of Assignor not otherwise listed below

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner				Antenna for Enhanced
Ç.	08/100563	5638081	AT&T Wireless	United States	15-Jun-95	10-Jun-97	Radio Coverage
145.05	20008400			Linited Ctates	07-Jun-95	09-Sep-97	Antenna
148115	29/041775	D383463	AT&T Wireless	Oliked States			-
200			AT&T Wireless	European Patent Convention	06-Oct-94		Antenna Mounting System
149.EPC	95902387						Astenna Mounting System
<u>.</u>	4065220	5641141	AT&T Wireless	United States	06-Jun-95	78-JUN-97	Arrangement of Displays
149.05	190750					13, lan.08	for a Wireless Communications Terminals
!		D380140	AT&T Wireless	United States	23-Sep-94	220120	Wireless Communications
150.US	29/024950	21,500		Cotos Latinati	22. hm-94	17-Oct-95	Terminal
153115	29/024955	D363281	AT&T Wireless	United States	2	3	Personal Communicator
20:00			a to t Misologe	United States	26-Nov-97	01-Jul-03	Possonal Communicator
154.US.C2	08/979110	6587700	AIGI WIICIGSS				With Flip Element Display
			AT&T Wireless	United States	05-Jun-03		High Rate Reed-Solomon
154.US.C2(1)	10/455125						Concatenated Trellis
							System for Transmission of
							Data Over Cellular Mobile
	•			<u></u>	22-Nov-95	17-Feb-04	Radio
155 BR	P19509749-0	PI9509749-0	AT&T Wireless	Brazii			High Rate Reed-Solomon
							Coded 16 Star QAM
							System for Transmission of
			: 		;		Data Over Celiular Mobile Radio
· ·	2203903		AT&T Wireless	Canada	22-Nov-95		
133.00							

							_	_		_								_		_		_					_											<del>.</del>		<del>.</del>		7
	Title	High Rate Reed-Solomon	Concatenated in ems	System for Transmission of	Data Over Cellular Mobile	Radio	High Rate Reed-Solomon	Concatenated Trellie	Coded 16 Ctor OAM	Coded to otal columns of	System for Transmission of	Data Over Celiular Mobile	Kadio	Ingin Kate Keed-Soloinon	Concatenated Trellis	Coded 16 Star QAM	System for Transmission of	Data Over Cellular Mobile	Radio	Cyclic Traille Coded	Modulation	Cyclic Trellis Coded	Modulation	Custo Trailie Coded	Modulation	MOOUSE	Cyclic Trellis Coded	Modulation	Cyclic Trellis Coded	Modulation	Cyclic Trellis Coded Modulation		Cydic Treilis-Coded Modulation	Cyclic Trellis-Coded	Modulation	System and Method for	Wireless Transmission of	Digital Data Using	Differentially Encoded Pilot	Words	Differentially Encoded Pilot	Wood System Circ Incurred
Grant	Date		_			16-Mar-00	-						18-Aug-97					_	17-Nov-98		13-Apr-04		25_May_00	$\dagger$	07-0-4-07	1		03-Aug-99		21-Jul-98	25-Mav-99		10-Jun-03							17-Jul-03		
Application	Date			•	•	22-Mov-05				٠	-	70 11 00	23-NOV-94						06-May-97		22-Nov-95		22.Nov.05	26-1404-32	22 Nov. 04	40-A0A-03-		09-Jul-97		11-Dec-95	17-Nov-95		04-Jan-02		07-May-03					22-Nov-95	22 Mar. 06	75-14UV-5-3
Country	Name					Mavico							United States		•				United States		Brazil		Maxim		Inited States	†		United States		United States	United States		United States		United States		•	•	:	Brazil		Caliava
	Owner .					AT&T Windless							A I & I Wireless				•		AT&T Wireless		AT&T Wireless	<del> -</del>	ATPT Mississes	$\dagger$	A TOT Missions	1		AT&T Wireless		AT&T Wireless	AT&T Wireless		AT&T Wireless		AT&T Wireless					AT&T Wireless		Al&I Wireless
Patent	Number					108880	190009						5659578						5838728		haliem		106647	190047		26/2290		5931965		5784417	5007565	200	6578173							PI9509910-7		
Application	Number		-			0000000	00000						08/344156						-626907		PIG509008.5		700007	9703631	70,777,777	08/344111		08/890507		08/570289	08/581477	1110000	10/039038		10/434385		•			PI9509910-7		2203902
Docket	Number			•		455 MV					•		135.05						155.US.C1		156 BR		156 MV			130.03		156.US.C1		156.US.D1	15611C D2	†	156 US D2C1(1)	╁╌	156 US D2C 1(2)	╁╴				157.BR		157.CA

ket         Application         Patent         Owner         Country         Application         Grant         Grant         Forth Mumber         Country         Application         Grant         Forth Mumber         Forth Mum							,	-
Number   Number   Owner   Number   Owner   Number   Owner	Docket	Application	Patent	(	Country	Application Date	Grant Date	Title
System	Number	Number	Number	Owner				for Wireless Transmissions of Digital Data
9703632   195560   AT&T Wireless   Mexico   22-Nov-95   16-Mar-00   Virol								System and Method for
9703832   195560   AT&T Wireless   Mexico   22-Nov-95   16-Mar-00   Difference								Wireless Transmission of Digital Data Using
9703832   195560   AT&T Wireless   Mexico   22-Nov-95   Control   Control							46 Mar 00	Differentially Encoded Pilot
198334   198344   198334   1	157 MX	9703832	195560	AT&T Wireless	Mexico	22-Nov-95	10-IMai -00	Differentially Encoded Pilot
Se6562   Se6562   AT&T Wireless   United States   23-Nov-94   15-Sep-98   Of Control o	AM: 7C1	-						Word System and Method for Wireless Transmissions
566562   5803033   AT&T Wireless   Germany   31-Oct-91   14-Jan-99   Company   Section   Secti				2001011M1 TOTA	United States	23-Nov-94	15-Sep-98	of Digital Data
566582         69128727.9         AT&T Wireless         Germany         31-Oct-91         14-Jan-99         Oct-91         I4-Jan-99         Oct-91         I	157.US	08/344238	5809083	Ala Wildias				Location Registration
566582         69128727.9         AT&T Wireless         Germany         31-Oct-91         14-Jan-98         Co. 15								Communicator Such as a
566582         AT&T Wireless         Denmark         31-Oct-91         14-Jan-98         C           92900021.4         566582         AT&T Wireless         France         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         France         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           5         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           6         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           6         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           7         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           8         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           9         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           9         566582         AT&T Wireless					Germany	31-Oct-91	14-Jan-98	Cellular Telephone
92900021.4         566582         AT&T Wireless         Denmark         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         France         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           5         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           P         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           P         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           S         07/606523         5197092         AT&T Wireless         Spain         31-Oct-90         23-Mar-93           S         07/606523         5197092         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	177.DE	566582	69128727.9	AT&I Wireless	Gennany			Location Registration
92900021.4         566562         AT&T Wireless         Denmark         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         France         31-Oct-91         14-Jan-98         C           3         92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           5         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           P         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           P         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           P         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           S         07/60523         5197092         AT&T Wireless         Canada         21-Oct-96         17-Apr-91								System for a Personal
92900021.4 566582 AT&T Wireless Denmark 31-Oct-91 14-Jan-98 C 31-Oct-91 14-Jan-98 C C 566582 AT&T Wireless Great Britain 31-Oct-91 14-Jan-98 C 566582 566582 AT&T Wireless Sweden 31-Oct-91 14-Jan-98 C C 566582 AT&T Wireless Spain 31-Oct-91 14-Jan-98 C C 566582 AT&T Wireless Canada 21-Oct-91 14-Jan-98 C C 17-Apr-01 14-Jan-98 C C 23-Mar-93 C C C C C C C C C C C C C C C C C C C						3	44_120_0R	} :
14-Jan-96   C   C   C   C   C   C   C   C   C	ì	0000001	566582	AT&T Wireless	Denmark	31-Oct-91	14-781-30	1 ocation Registration
92900021.4   566582   AT&T Wireless   France   31-Oct-91   14-Jan-98   C   566582   AT&T Wireless   Sweden   31-Oct-91   14-Jan-98   C   566582   566582   AT&T Wireless   Spain   31-Oct-91   14-Jan-98   C   566582   2112309   AT&T Wireless   Spain   31-Oct-91   14-Jan-98   C   566582   5197092   AT&T Wireless   United States   31-Oct-96   17-Apr-01   AT&T Wireless   C   C   C   C   C   C   C   C   C	177.UK	32300021.4						System for a Personal
92900021.4         566582         AT&T Wireless         France         31-Oct-91         14-Jan-98         C           92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           566582         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           5         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         66582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         66582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         6766582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         6766582         AT&T Wireless         Canada         21-Oct-90         23-Mar-93           5         AT&T Wireless         Canada         21-Oct-96         17-Apr-01								Communicator Such as a
92900021.4 566582 AT&T Wireless Irlance 31-Oct-91 14-Jan-98 C 566582 AT&T Wireless Sweden 31-Oct-91 14-Jan-98 C 566582 AT&T Wireless Spain 31-Oct-91 14-Jan-98 C 566582 5197092 AT&T Wireless United States 31-Oct-90 23-Mar-93 AT&T Wireless Canada 21-Oct-96 17-Apr-01						31-Oct-91	14-Jan-98	Cellular Telephone
Sec582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           566582         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         L           5         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         07/606523         5197092         AT&T Wireless         United States         31-Oct-90         13-Mar-93           AT&T Wireless         Canada         21-Oct-90         17-Apr-01	177.FR	92900021.4	566582	AT&T Wireless	rigilica			Location Registration
92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           566582         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           6         07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           7188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01								System for a Personal
92900021.4         566582         AT&T Wireless         Great Britain         31-Oct-91         14-Jan-98         C           566582         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           566582         2197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           5188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01								Communicator Such as a
92900021.4         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           566582         566582         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01		· · · · · ·			Crost Britain	31-Oct-91	14-Jan-98	Cellular Telephone
566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98         C           5         07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	177.GB	92900021.4	566582	AT&I WIREIESS	Glear Critical			Location Registration
566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98         0           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98           07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01								System for a Personal Communicator Such as a
566582         566582         AT&T Wireless         Sweden         31-Oct-91         14-Jan-98           566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98           07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01						24 Oct 04	14-Jan-98	Cellular Telephone
566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98           07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	i !	66689	566582	AT&T Wireless	Sweden	31-00-31		Location Registration
566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jan-98           07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           218334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	177.SE	200000						System for a Personal
566582         2112309         AT&T Wireless         Spain         31-Oct-91         14-Jair-30           07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           218334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01							77.	Communicator Societas es
566582         2112309         AT&T Wireless         United States         31-Oct-90         23-Mar-93           07/606523         5197092         AT&T Wireless         Canada         21-Oct-96         17-Apr-01		-	-	AT&T Wireless	Spain	31-Oct-91	14-7911-90	1 ocation Registration
07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	177.SP	566582	2112309	5			-	System for a Personal
07/606523         5197092         AT&T Wireless         United States         31-Oct-90         23-Mar-93           2188334         AT&T Wireless         Canada         21-Oct-96         17-Apr-01	Ì	_						Communicator Such as a
07/606523         5197092         AT&T Wireless         United States					11-ited Chates	31-Oct-90	23-Mar-93	Celtular Telephone
2188334 AT&T Wireless Canada 21-Oct-96 17-Apr-01	177.115	07/606523	5197092	AT&T Wireless	Utilieu States			Powered Down Selection
2188334 2188334 AT&T Wireless Canada 21-Oct-96 17-Apr-01								Of a Preferable Wileless Communications Service
2188334 2188334 AT&T Wireless   Carlada					2000	21-Oct-96	17-Apr-01	Provider in a Multi-Service
	206 CA	2188334	2188334	AT&T Wireless	Cariana			

Application   Patent   Owner   Country   Application   Grain								
Number   Number   Owner   Native   Properties   Number   Owner   Native   Properties   Number   Native   Properties   Native	cket	Application	Patent		Country	Application	Grant Date	Title
Post	mber	Number	Number	Owner	маше			Provider Environment
Poc								
Sel   20004.5   779751   AT&T Wireless   Convention   12-Dec-96   10-Dec-03   PR   PR   PR   PR   PR   PR   PR   P								Powered Down Selection of a Preferable Wireless
Set 20004.5   779751   AT&T Wireless   Convention   12-Dec-96   10-Dec-03   Properation   10-Dec-03   Properation   12-Dec-96   10-Dec-03   Properation   10-Dec-03   Properation   12-Dec-96   12-D							٠	Communications Service
12.0ec.96   10.0ec.03   179751   12.0ec.96   10.0ec.03   179751   179751   178771092   17877101685   178771016					European Patent		•	Provider in a Multi-Service
96120004.5   77975.1   AT&T Wireless   Great Britain   12.Dec.96   10.Dec.03   P. Dec.96   10.Dec.03   10.Dec.03   P. Dec.96   P. Dec.96	,		770751	AT&T Wireless	Convention	12-Dec-96	10-Dec-03	Powered Down Selection
Set 20004.5   779751   AT&T Wireless   Great Britain   12-Dec-66   10-Dec-03   Properties   12-Dec-66   10-Dec-03   Properties   12-Dec-96   10-Dec-03   Properties   12-Dec-96   10-Dec-03   Properties   12-Dec-96   12-De	ပ္စ	96120004.5	1,19131			•.		of a Preferable Wireless
96120004.5   779751   AT&T Wireless   Great Britain   12.Dec-96   10-Dec-03   Process   10-Dec-03   Process   10-Dec-03   Process   10-Dec-03   Process   10-Dec-03   Process   10-Dec-03   10-Dec-0								Communications Service
96120004.5   779751   AT&T Wireless   Great Britain   12-Dec-96   10-Dec-00   10-Dec-00							40.00	Provider in a Multi-Service
966233   12.0004.3			770751	AT&T Wireless	Great Britain	12-Dec-96	10-090	Powered Down Selection
100   100	8	96120004.5	(1917)			-		of a Preferable Wireless
966233   202958   AT&T Wireless   Mexico   09-Dec-96   06-Jul-01   P   P   P   P   P   P   P   P   P								Communications Service
1065658   AT&T Wireless   Mexico   09-Dec-96   09-De		.*				;	20	Provider in a Midit-Service Provider Frovingent
996233			20000	AT&T Wireless	Mexico	09-Dec-96	10-100-00	Powered Down Selection
C1   1065658   AT&T Wireless   United States   12-Dec-95   02-Oct-01   F	¥	966233	008707					of a Preferable Wireless
C1   1065658								Communications Service
C1   1065658   AT&T Wireless   United States   12-Dec-95   UZ-UGCU1								Provider III a Multi-Service
08/570902   6238233   713				AT&T Wireless	United States	12-Dec-95	02-Oct-01	Downered Down Selection
1065658	St	08/570902	2528629	5				of a Preferable Wireless
1065658         AT&T Wireless         United States         14-Jun-99           2-25322         6311064         AT&T Wireless         United States         28-Nov-00         30-Oct-01           9706556         AT&T Wireless         Brazil         09-Jun-97         Patent         Patent           PCTALIS97/10095         AT&T Wireless         Cooperation         09-Jun-97         O9-Jun-97								Communications Service
1065658         AT&T Wireless         United States         14-Jun-99           2-5322         6311064         AT&T Wireless         United States         28-Nov-00         30-Oct-01           9706556         AT&T Wireless         Brazili         09-Jun-97         Patent           PCTALIS97/10095         AT&T Wireless         Cooperation         09-Jun-97								Provider in a Multi-Service
1065658         AT&T Wireless         United States         28-Nov-00         30-Oct-01           2-25322         6311064         AT&T Wireless         United States         28-Nov-00         30-Oct-01           9706556         AT&T Wireless         Brazil         09-Jun-97         Patent           PRISTO         AT&T Wireless         Patent         09-Jun-97           AT&T Wireless         Cooperation         09-Jun-97					Soloto Latinate	44_ lun-09		Provider Environment
-25322 6311064 AT&T Wireless United States 28-Nov-00 30-Oct-01 9706556 AT&T Wireless Brazil 09-Jun-97 981350 AT&T Wireless Mexico 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97	č	406668		AT&T Wireless	United States	20-lino-ti		Powered Down Selection
25322         6311064         AT&T Wireless         United States         28-Nov-00         30-Oct-01           9706556         AT&T Wireless         Brazil         09-Jun-97         09-Jun-97           981350         AT&T Wireless         Mexico         09-Jun-97           Patent         Patent         09-Jun-97	12.50	0000001						of a Preferable Wireless
-25322         6311064         AT&T Wireless         United States         28-Nov-00         30-Oct-01           9706556         AT&T Wireless         Brazil         09-Jun-97         Brazil         09-Jun-97           981350         AT&T Wireless         Patent         09-Jun-97         AT&T Wireless         Cooperation         09-Jun-97								Communications Service
-25322 6311064 AT&T Wireless United States 28-Nov-500 35 35 37 36 35 37 37 37 37 37 37 37 37 37 37 37 37 37							30-Oct-01	Provider Environment
9706556 Brazil 09-Jun-97 9706556 AT&T Wireless Brazil 09-Jun-97 AT&T Wireless Mexico 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97			6244064	AT&T Wireless	United States	28-Nov-00	2000	Memory Exceed
9706556 AT&T Wireless Brazil 09-Jun-97 981350 AT&T Wireless Mexico 09-Jun-97 Patent DETA 1597/10095 AT&T Wireless Cooperation 09-Jun-97	US.C2	-25322	931104		-			Notification for Wireless
9706556         AT&T Wireless         Brazil         09-Jun-97           981350         AT&T Wireless         Mexico         09-Jun-97           Patent         Patent         09-Jun-97           AT&T Wireless         Cooperation         09-Jun-97								Network Communication
9706556 AT&T Wireless Diazir 981350 AT&T Wireless Mexico 09-Jun-97 Patent 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97					li-c-O	09-Jun-97		Device
981350 AT&T Wireless Mexico 09-Jun-97 Patent Patent 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97	ä	9706556		AT&T Wireless	Diazii			Memory Exceed
981350 AT&T Wireless Mexico 09-Jun-97 Patent 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97	á				•			Network Communication
981350 AT&T Wireless Mexico of Sun Strain Cooperation O9-Jun-97					-	00.1110.97		Device
Patent Patent 09-Jun-97 AT&T Wireless Cooperation 09-Jun-97	}	081350		AT&T Wireless	Mexico	O-Inpo-co		Memory Exceed
PCT//IS97/10095	YW.	200106			Patent	09-Jun-97		Notification for Wireless
-	207 PCT	PCT/US97/10095		AT&T Wireless	Cooperation			

Dockot	Annlication	Patent		Country	Application	Grant	
Nimber	Nimber	Number	Owner	Name	Date	Date	Title
							Telephone System Having Landline-Supported Private
	08/67174E	6025103	AT&T Wireless	United States	28-Jun-96	07-Mar-00	Into Cellular Network
211.CA	2195494	2195494	AT&T Wireless	Canada	20-Jan-97	24-Apr-01	Roaming Authorization System
244 500	9 0210010		AT&T Wireless	European Patent	04-Feb-97		Roaming Authorization System
211.EPC 244.1IS	1051340	6411807	AT&T Wireless	United States	05-Feb-96	25-Jun-02	Roaming Authorization System
241 US C1	10/051713	6560455	AT&T Wireless	United States	17-Jan-02	06-May-03	Roaming Authorization System
213.CA	2195487	2195487	AT&T Wireless	Canada	20-Jan-97	15-Oct-02	Location-Dependent Cellular Service Profile
213118	08/603290	5950125	AT&T Wireless	United States	20-Feb-96	07-Sep-99	Location-Dependent Cellular Service Profile
218 BR CD1	74447		AT&T Wireless	Brazil	20-Feb-97		Method and Apparatus for Determining the Location of a Mobile Telephone
100000	2105504	2105501	AT&T Wireless	Canada	21-Jan-97	04-Sep-01	Method and Apparatus for Determining the Location of a Mobile Telephone
10.000 A	199991	100000	AT&T Wireless	Mexico	17-Feb-97	09-Feb-01	Method and Apparatus for Determining the Location of a Mobile Telephone
210.IMA.CF	08/472082	5730354	AT&T Wireless	United States	07-Jun-95	24-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
21815 CD1	08/603793	5724660	AT&T Wireless	United States	20-Feb-96	03-Mar-98	Method and Apparatus for Determining the Location of a Mobile Telephone
221.CA	2191143	2191143	AT&T Wireless	Canada	25-Nov-96	16-May-00	Radio Telephone With Detachable Pager
221.US	08/576385	5854984	AT&T Wireless	United States	21-Dec-95	29-Dec-98	Radio Telephone With Detachable Pager
							Method and Apparatus for Indicating to a Wireless Network the Operational Mode of a Wireless
223.CA	2219366		AT&T Wireless	Canada	04-Dec-96		Communicator

Docket         Application           Number         Number           223.EPC         9694746.5           223.MX         976970           223.US         08/571050           224.CA         2188330	Patent		Country	Application Date	Grant	<u> </u>
6 6		-		)	}	ING
	Number	Owner	>:::51			Method and Apparatus for
	:					Network the Operational
			Curonoan Datent			Mode of a Wireless
			Convention	04-Dec-96		Communicator
		AT&I WIREIESS	100100			Method and Apparatus for
						Indicating to a Wireless
						Network the Operational
						Mode of a Wileless
		ATOT Misologo	Mexico	04-Dec-96		Communicator
·		Alai wireress	2000			Method and Apparatus for
						Network the Operational
						Mode of a Wireless
	·	_	Cototo Letteria	12.Dec.05		Communicator
		AT&T Wireless	United States	12-040-32		A Method for Selecting a
-						Wireless Communications
·						Service Provider in a Multi-
·						Service Provider
			Canada	21-Oct-96	24-Apr-01	Environment
	2188330	Alai Wileicas				A Method for Selecting a
						Service Provider in a Multi-
			1	-		Service Provider
	•		European Patent	42.Dec.06		Environment
224 EBC 06120011		AT&T Wireless	Convention	00.000.71		A Method for Selecting a
						Wireless Communications
					-	Service Provider in a Multi-
						Service Provider
			Movico	09-Dec-96	13-Dec-00	Environment
224.MX 966230	200025	A1&1 Wireless	DOLVOIN			A Method for Selecting a
						Wireless Communications
	- 3					Service Provider
				20,004,07	03-Nov-98	Environment
701.100	5832367	AT&T Wireless	United States	73-Oct-3/	3 -	Method for Selecting a
224.03.01			-			Wireless Communications
						Service Provider in a Multi-
						Service Provider
			Haited States	15-Sep-98	28-Aug-01	Environment
224.US.C2 09/152927	6282420	AT&I WIREIESS	Collico Compo			A Method for Selecting a
						Service Provider in a Multi-
			-	26 00+00	06-Aug-02	Service Provider
224 HS C2C1 09/425240	6430396	AT&T Wireless	United States	1 20-00-59	8	

·		6	ations	a Multi-			ting a	cations			itus for	)ata in a		etus for	Jata in a		atus ror	ם וו	atus for	Data in a		atus for		atus for		ting a	Offering Feature		reless			reless		reless	•
Title	Environment	20102 20 F 2 11 2 4 4	A Method for Selecting a Wireless Communications	Service Provider in a Multi-	Service Provider	Environment	A Method for Selecting a	Wireless Communications	Service Provider in a Muill-	Environment	Method and Apparatus for	Storing Activation Data in a	Cellular Telephone	Method and Apparatus for	Storing Activation Data in a	Cellular Telephone	Method and Apparatus for	Storing Activation Data in a	Method and Annaratis for	Storing Activation Data in a	Cellular Telephone	Method and Apparatus for	Spectrum Analysis	Method and Apparatus for	Spectrum Analysis	Dynamically Selecting a	Wireless Network Offering	Dvnamically	Reconfigurable Wireless	Communicator	Dynamically	Reconfigurable Wireless	Ownerplan	Reconfigurable Wireless	
Grant Date						03-Aug-04							26-Oct-99			18-Nov-03		00	10-201-01				09-Apr-02		24-Jun-03										
Application Date						28-May-02				25-Mav-04	20,1110		28-Jul-97			24-Dec-98			OS-Aug-o	٠	22-Mar-04		07-Aug-96		12-Nov-99		76 004 07	10-00-97		16-Oct-97		70 00	18-DGI-87		
Country						United States				United States	OIIIIGO Oracos		United States			United States			United States.		United States	200000000000000000000000000000000000000	Canada		United States		-	Canada	Furonean Patent	Convention		•	Japan		
, and		•				AT&T Wireless	2000				Al&I wireless		ATRT Wireless	COLONIA IN INC.		AT&T Wireless			AT&T Wireless	i	ATPT Windless	A G WIEGOS	AT&T Wireless	2000	AT&T Wireless	2000		AT&T Wireless		ATRT Wireless	AIGH VIIIGIGSS		AT&T Wireless		_
Patent	Name					14064	1061770						E034344	29/4311		6650893			6748209					7107017	25770	0304173						•			
Application /	Number	• .		<del></del>		_	10/154850				-603471		100700700	08/90182/		09/219872	7.00		1902793			10/805247		/187817		09/439015		2274517			97954673.6		-100135		
Docket	Number					_	Z24.US.C2C1(1)				224.US.C2C1(2)			ZZ5.US.C1		225118.02			225.US.C3			225.US.C4		Z26.CA		226.US.C1		232.CA			232.EPC		232.JP		

et         Application         Patent Number         Owner         Country Name           2184424         2184424         AT&T Wireless         Canada         2           239633/1996         200024         AT&T Wireless         Japan         1           239633/1996         200024         AT&T Wireless         Japan         1           2190045         2865503         AT&T Wireless         Canada         2           2190045         AT&T Wireless         Canada         2           2190045         AT&T Wireless         Germany         European Patent           2190045         AT&T Wireless         Gonvention           20119565.8         68630100.8         AT&T Wireless         Gonvention           20119565.6         778716         AT&T Wireless         Great Britain           20119565.6         778716         AT&T Wireless         Japan           2003-170351         AT&T Wireless         Japan           218372         AT&T Wireless         Japan           AT&T Wireless         Japan <t< th=""><th>ion         Patent Number         Owner         Country Name         Application Date         Country Date           218424         AT&amp;I Wireless         Canada         29-Aug-96         24-Aug-96           200024         AT&amp;I Wireless         Japan         11-Sep-96         23-Aug-96           5865503         AT&amp;I Wireless         United States         30-Oct-96         23-Aug-96           2412         AT&amp;I Wireless         Canada         12-Nov-96         24-Aug-96         24-Aug-96           2412         AT&amp;I Wireless         Germany         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&amp;I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&amp;I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&amp;I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2413         AT&amp;I Wireless         Japan         05-Dec-96         24-Aug-96         24-Aug-96           2413         AT&amp;I Wireless         Japan         16-Jun-03         24-Aug-96         24-Aug-96           2413         AT&amp;I Wireless         Japan         05-Dec-96         24-Aug-96</th></t<>	ion         Patent Number         Owner         Country Name         Application Date         Country Date           218424         AT&I Wireless         Canada         29-Aug-96         24-Aug-96           200024         AT&I Wireless         Japan         11-Sep-96         23-Aug-96           5865503         AT&I Wireless         United States         30-Oct-96         23-Aug-96           2412         AT&I Wireless         Canada         12-Nov-96         24-Aug-96         24-Aug-96           2412         AT&I Wireless         Germany         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2412         AT&I Wireless         Convention         05-Dec-96         24-Aug-96         24-Aug-96           2413         AT&I Wireless         Japan         05-Dec-96         24-Aug-96         24-Aug-96           2413         AT&I Wireless         Japan         16-Jun-03         24-Aug-96         24-Aug-96           2413         AT&I Wireless         Japan         05-Dec-96         24-Aug-96
1967   Number   Number   Owner   Name   1968	Number
218424   218424   AT&T Wireless   Canada   29	218424         AT&T Wireless         Canada         29-Aug-96         24-Oct-00           200024         AT&T Wireless         Japan         11-Sep-96         23-Dec-00           200024         AT&T Wireless         United States         30-Oct-95         23-Dec-00           24-02-00         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           AT&T Wireless         Cermany         05-Dec-96         24-Sep-03           AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Japan         05-Dec-96         24-Sep-03
218424   218424   AT&T Wireless   Canada   Line	218424         AT&T Wireless         Cartada         2774820           200024         AT&T Wireless         Japan         11-Sep-96         22-Dec-00           200024         AT&T Wireless         United States         30-Oct-95         02-Feb-99           5865503         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           2412         AT&T Wireless         Germany         05-Dec-96         24-Sep-03           2412         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           AT&T Wireless         Japan         16-Jun-03           51         AT&T Wireless         Japan         16-Jun-03           51         AT&T Wireless         Japan         16-Jun-03
239633/1996   AT&I Wireless   Japan   11	11.5ep-96   11.5ep-96   12.0cccccccccccccccccccccccccccccccccccc
11   129633/1996	200024         AT&T Wireless         Japan         11-Sep-96         23-Dec-00           5865503         AT&T Wireless         United States         30-Oct-95         02-Feb-99           2412         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Convention         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           AT&T Wireless         Japan         05-Dec-96         07-Jan-04
239633/1996  239633/1996  239633/1996  2190045  2190046	200024 AT&T Wireless Mexico 22-Oct-96 23-Dec-00 5865503 AT&T Wireless United States 30-Oct-95 02-Feb-99 AT&T Wireless Canada 12-Nov-96 24-Sep-03 2412 778716 AT&T Wireless Convention 05-Dec-96 24-Sep-03 AT&T Wireless Convention 05-Dec-96 24-Sep-03 AT&T Wireless Great Britain 05-Dec-96 24-Sep-03 AT&T Wireless Great Britain 05-Dec-96 24-Sep-03 AT&T Wireless Japan 05-Dec-96 07-Jan-04 AT&T Wireless Japan 16-Jun-03 51 AT&T Wireless Japan 16-Jun-03
965014   200024   AT&T Wireless   Mexico   22	200024         AT&T Wireless         Mexico         22-Oct-96         23-Dec-00           5865503         AT&T Wireless         United States         30-Oct-95         02-Feb-99           2412         T78716         AT&T Wireless         Germany         05-Dec-96         24-Sep-03           2412         T78716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           3         T78716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           4         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           3         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           4         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           51         AT&T Wireless         Japan         05-Dec-96         07-Jan-04
965014   200024   AT&T Wireless   MeXICO   2190045   S865503   AT&T Wireless   United States   30	200024         AT&T Wireless         Mexico         22003           \$865503         AT&T Wireless         United States         30-Oct-95         02-Feb-99           \$865503         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           \$69630100.8         AT&T Wireless         Germany         05-Dec-96         24-Sep-03           \$2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           \$6         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           \$778716         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           \$6         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03           \$1         AT&T Wireless         Japan         16-Jun-03         24-Sep-03           \$1         AT&T Wireless         Japan         16-Jun-03         07-Jan-04           \$1         AT&T Wireless         Japan         16-Jun-03         07-Jan-04
2190045   2190	5865503         AT&T Wireless         United States         30-Oct-95         02-Feb-99           2412         AT&T Wireless         Canada         12-Nov-96         24-Sep-03           2412         AT&T Wireless         Cermany         05-Dec-96         24-Sep-03           CA12         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           CA12         AT&T Wireless         Convention         05-Dec-96         24-Sep-03           CA14         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           CA14         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03           CA14         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           CA14         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           CA15         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           CA15         AT&T Wireless         Japan         05-Dec-96         24-Sep-03           CA15         AT&T Wireless         Japan         16-Jun-03         07-Jan-04           CA15         AT&T Wireless         Japan         28-Nov-96         07-Jan-04
2190045   2190	5865503         AT&T Wireless         United States         30-Oct-95         02-Feb-99         H           2412         AT&T Wireless         Canada         12-Nov-96         24-Sep-03         N           2412         T78716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           3         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           4         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           5         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         N           5         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03         N           5         AT&T Wireless         Japan         16-Jun-03         N           5         AT&T Wireless         Japan         16-Jun-03         N           5         AT&T Wireless         Japan         16-Jun-03         N
08/550130   5865503   A1&1 Witteless   Canada   11	S965503
C. D1 301635.8 69630100.8 AT&T Wireless Germany 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AT&T Wireless   Canada   12-Nov-96   Color
C.D1 301635.8 69630100.8 AT&T Wireless Canada 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AT&T Wireless   Canada   12-Nov-50   Convention   Conve
Section	Sacrotron
96119565.8 69630100.8 AT&T Wireless Germany 00 ge119565.8-2412 778716 AT&T Wireless Convention 0 Gentless Convention 0 AT&T Wireless Convention 0 Gentless Great Britain C AT&T Wireless Hong Kong ( AT&T Wireless Japan AT&T Wireless Mexico AT&T Wireless Netherland AT&T Wireless Netherland AT&T Wireless Netherland	69630100.8         AT&T Wireless         Germany         05-Dec-96         24-Sep-03         N           -2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N           -2412         778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-03         N
96119565.8 69630100.8 AT&T Wireless Convention 0 D1 3016354.7 AT&T Wireless Convention 0 D1 3016354.7 AT&T Wireless Convention 0 D1 3016354.7 AT&T Wireless Great Britain C 4103133.8 AT&T Wireless Hong Kong ( 324896/1996 AT&T Wireless Japan D1 2003-170351 AT&T Wireless Japan AT&T Wireless Japan AT&T Wireless Japan AT&T Wireless Wexico AT&T Wireless Wexico	Septiment   Convention   Conv
Be119565.8-2412   778716   AT&T Wireless   Convention   One	European Patent
D1         3016354.7         AT&T Wireless         Convention         0           D1         3016354.7         AT&T Wireless         Convention         0           D1         3016354.7         AT&T Wireless         Convention         0           4103133.8         AT&T Wireless         Great Britain         C           324896/1996         AT&T Wireless         Hong Kong         C           31         2003-170351         AT&T Wireless         Japan           324896/1996         AT&T Wireless         Japan         C           324896/1996         AT&T Wireless         Japan         C	778716         AT&T Wireless         Convention         05-Dec-96         24-Sep-05           778716         AT&T Wireless         Great Britain         05-Dec-96         24-Sep-03         N           778716         AT&T Wireless         Hong Kong         05-Dec-96         24-Sep-03         N           AT&T Wireless         Japan         16-Jun-03         05-Dec-96         07-Jan-04           AT&T Wireless         Japan         16-Jun-03         05-Dec-96         07-Jan-04           AT&T Wireless         Mexico         28-Nov-96         07-Jan-04
96119565.8-712         778716         AT&T Wireless         European Patent           01         3016354.7         AT&T Wireless         Great Britain         Convention           04         4103133.8         AT&T Wireless         Hong Kong         Convention           04         4103133.8         AT&T Wireless         Japan         Convention           04         2003-170351         AT&T Wireless         Japan         Convention	European Patent 05-Dec-96  AT&T Wireless Convention 05-Dec-96  AT&T Wireless Great Britain 05-Dec-96  AT&T Wireless Hong Kong 05-Dec-96  AT&T Wireless Japan 16-Jun-03  AT&T Wireless Japan 16-Jun-03  AT&T Wireless Japan 16-Jun-03
3016354.7         AT&T Wireless         Convention         0           96119565.8         778716         AT&T Wireless         Great Britain         C           4103133.8         AT&T Wireless         Hong Kong         C           324896/1996         AT&T Wireless         Japan         C           2003-170351         AT&T Wireless         Japan         C           965918         218372         AT&T Wireless         Mexico           AT&T Wireless         Netherland	AT&T Wireless   Convention   O5-Dec-96   Con
3016354.7         AT&T Wireless         Convenion           96119565.8         778716         AT&T Wireless         Great Britain         C           4103133.8         AT&T Wireless         Hong Kong         C           324896/1996         AT&T Wireless         Japan         C           2003-170351         AT&T Wireless         Japan         C           965918         218372         AT&T Wireless         Mexico           AT&T Wireless         Netherland         AT&T Wireless         Netherland	AT&T Wireless Convenion 05-Dec-96 24-Sep-03 N AT&T Wireless Great Britain 05-Dec-96 24-Sep-03 N AT&T Wireless Japan 05-Dec-96 Sep-03 N AT&T Wireless Japan 16-Jun-03 AT&T Wireless Japan 16-Jun-03 NA-Jan-04 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
96119565.8 778716 AT&T Wireless Great Britain C 4103133.8 Hong Kong ( 324896/1996 AT&T Wireless Japan 2003-170351 AT&T Wireless Japan 965918 218372 AT&T Wireless Mexico 965918 218372 AT&T Wireless Netherland	778716   AT&T Wireless   Great Britain   05-Dec-96   24-Sep-03   No.
96119565.8         778716         AT&T Wireless         Great Britain         G           4103133.8         AT&T Wireless         Hong Kong         6           324896/1996         AT&T Wireless         Japan           D1         2003-170351         AT&T Wireless         Japan           C         965918         218372         AT&T Wireless         Netherland           AT&T Wireless         Netherland	778716   AT&T Wireless   Great Britain   05-Dec-96   24-Sep-03   N
96119565.8         778716         AT&T Wireless         Order Officer           4103133.8         AT&T Wireless         Hong Kong         0           224896/1996         AT&T Wireless         Japan           D1         2003-170351         AT&T Wireless         Japan           C         965918         218372         AT&T Wireless         Netherland           AT&T Wireless         Netherland	778716 AT&I Wireless Creat Creat.  AT&T Wireless Hong Kong 05-Dec-96  AT&T Wireless Japan 16-Jun-03  AT&T Wireless Japan 16-Jun-03  AT&T Wireless Japan 28-Nov-96 07-Jan-04
AT&T Wireless         Hong Kong         Congress         Hong Kong         Congress         Hong Kong         Congress         Congress         Date         AT&T Wireless         Japan         Congress         AT&T Wireless         Mexico         AT&T Wireless         Mexico         AT&T Wireless         Mexico         AT&T Wireless         Netherland	6 AT&T Wireless Hong Kong 05-Dec-96 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
4103133.8         AT&T Wireless         Hong Kong         O           324896/1996         AT&T Wireless         Japan           D1         2003-170351         AT&T Wireless         Japan           C         965918         218372         AT&T Wireless         Mexico           AT&T Wireless         Netherland	AT&T Wireless         Hong Kong         05-Dec-96           AT&T Wireless         Japan         05-Dec-96           AT&T Wireless         Japan         16-Jun-03           AT&T Wireless         Mexico         28-Nov-96         07-Jan-04
4103133.8       AT&T Wireless       Japan         324896/1996       AT&T Wireless       Japan         D1       2003-170351       AT&T Wireless       Mexico         965918       218372       AT&T Wireless       Netherland         AT&T Wireless       Netherland	AT&T Wireless Japan 05-Dec-96 AT&T Wireless Japan 16-Jun-03 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
324896/1996         AT&T Wireless         Japan           D1         2003-170351         AT&T Wireless         Japan           C18372         AT&T Wireless         Mexico           AT&T Wireless         Netherland	AT&T Wireless Japan 05-Dec-96 AT&T Wireless Japan 16-Jun-03 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
324896/1996         AT&T Wireless         Japan           D1         2003-170351         AT&T Wireless         Japan           C         965918         218372         AT&T Wireless         Netherland           AT&T Wireless         Netherland	AT&T Wireless Japan 16-Jun-03 AT&T Wireless Japan 16-Jun-03 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
324896/1990 D1 2003-170351 AT&T Wireless Japan AT&T Wireless Mexico AT&T Wireless Netherland AT&T Wireless Netherland	AT&T Wireless Japan 16-Jun-03 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
2003-170351         AT&T Wireless         Japan           965918         218372         AT&T Wireless         Mexico           AT&T Wireless         Netherland	AT&T Wireless Japan 16-Jun-03 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
2003-170351 AT&T Wireless Japan  965918 218372 AT&T Wireless Mexico  AT&T Wireless Netherland  AT&T Wireless Netherland	218372 AT&T Wireless Japan 10-301-05 218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
965918 218372 AT&T Wireless Mexico	218372 AT&T Wireless Mexico 28-Nov-96 07-Jan-04
965918 218372 AT&T Wireless Mexico	AT&T Wireless Mexico 28-Nov-96 07-Jan-04
965918 218372 Alat Wireless Netherland	A) & I WIERESS
AT&T Wireless Netherland	60 50 70
AT&T Wireless Netriterian	Alastocian   05-Dec-96   24-3ep-03
	778716 AT&T Wireless Nemerian

Docket Number	Application Number	Patent Number	Owner	Country	Application	Grant	- <u>9</u>
					Date	Date	ובום
							Customer Activation
235.US.C1	09/619108	6490445	AT&T Wireless	United States	19-Jul-00	03-Dec-02	System for Cellular Network
							Customer Activation
235 US C474	40/228788	640600		č			System for Cellular
7100000	10/220/33	07.25033	A I & I Wireless	United States	23-Aug-02	20-Apr-04	Network
		`					Customer Activation
235.US.C1(2)	10/814574		AT&T Wireless	United States	34-Mar 04		System for Cellular
				Some Commo	TO INGLES		Network
236.CA	2231452	2231452	AT&T Wireless	Canada	06-Sep-96	25-Jun-02	Cordiess Cellular System Base Station
236.CA.D1	2323253		AT&T Wireless	Canada	96-Sep-96		Cordless Cellular System Base Station
236.CA.D2	2335283		AT&T Wireless	Canada	06-Sep-96	·	Cordless Cellular System Base Station
236.CA.D3	2335275		AT&T Wireless	Canada	06-Sep-96		Cordless Cellular System Base Station
236.EPC	96930783.4		AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
236.EPC.D1	2077853.6		AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
236.EPC.D2	2077852.8		AT&T Wireless	European Patent Convention	06-Sep-96		Cordless Cellular System Base Station
236.HK1	3103379.2		AT&T Wireless	Hong Kong	13-May-03		Cordiess Cellular System Base Station
236.HK2	3103378.3		AT&T Wireless	Hong Kong	13-May-03		Cordless Cellular System
236.JP	9-512751		AT&T Wireless	Japan	06-Sep-96		Cordless Cellular System Base Station
236.MX	981829	202590	AT&T Wireless	Mexico	06-Sep-96	22-Jun-01	Cordless Cellular System Base Station
236.US	-260934	5675629	AT&T Wireless	United States	08-Sep-95	07-Oct-97	Cordless Cellular System Base Station .
236.US.D2(1)	10/279866	6681118	AT&T Wireless	United States	25-Oct-02	20-Jan-04	Cordless Cellular System
236.US.D3(1)	10/235039	6611692	AT&T Wireless	United States	04-Sep-02	26-Aug-03	Cordless Cellular System
236.US.D3(2)	10/647105		AT&T Wireless	United States	22-Aug-03		Cordless Cellular System
239.CA	2261927	2261927	AT&T Wireless	Canada	11-Jul-97	18-Nov-03	Method for Allocating a Mobile Station TMSI

ket         Application         Patent         Owner         Country         Application         Uriting States           ber         Number         Number         ATRT Wireless         European Patent         11-Jul-97         No.           ge00e0         205708         ATRT Wireless         Maxico         11-Jul-97         18-Dec-01         No.           ge00e0         205708         ATRT Wireless         Talwan         15-Jul-97         11-Sep-88         Mo.           ge00e02         713590         ATRT Wireless         Talwan         15-Jul-97         11-Sep-88         Mo.           ge06032         713590         ATRT Wireless         Canada         16-Dec-96         16-Mar-00         No.           ge06032         ATRT Wireless         Japan         16-Dec-96         06-Mar-00         No.           ge06044 1         230652         ATRT Wireless         Japan         16-Dec-96         06-M							4	
Number	ket	Application	Patent		Country	Application Date	Graffit Date	Title
91934931.3   AT&TWireless   Convention   11-Jul-97   11-Sep-98   Mack   Mexico   11-Jul-97   11-Sep-98   Mexico   12-Jul-96   11-Jul-97   11-Sep-98   Mexico   12-Jul-96   11-Jul-97   11-Sep-98   Mexico   12-Jul-96   11-Jul-97   11-Sep-98   Mexico   12-Jul-96   11-Jul-97   11-Jul-97	per	Number	Number	Owie	European Patent	74 1-4 07		Method for Allocating a
Se109904   94590   AT&T Wireless   Maxico   11-Jul-97   11-Sep-98   Mission   Missio	O	97934931.3		AT&T Wireless	Convention	18-IDC-11		Method for Allocating a
15-Jul-97   15-Jul-97   11-Sep-98   Miled States   11-Jul-07   11-Sep-98   Miled States   11-Jul-07   11-Sep-98   Miled States   11-Jul-07   11-Sep-98   Miled States   11-Jul-07   11-Jul-			205708	AT&T Wireless	Mexico	11-Jul-97	18-Dec-01	Mobile Station TMSI Method for Allocating a
86108994         94390         AT&T Wireless         United States         29-Jul-96         21-Mar-00         MM           75470/96         713550         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless         Canada         16-Nov-96         24-Oct-00         W           9625564.1         2308952         AT&T Wireless         Canada         16-Nov-96         24-Oct-00         W           5         9625564.1         2308952         AT&T Wireless         Canada         16-Nov-96         24-Oct-00         W           5         9625564.1         2308952         AT&T Wireless         India         22-Nov-96         09-Mar-00         W           8         962564.1         2308952         AT&T Wireless         India         22-Nov-96         09-Mar-00         W           9         108-575974         5678328         AT&T Wireless         United States         21-Dec-95         02-Mar-99         V           8         08-05830         1101482         AT&T Wireless         United States         21-Jun-97         05-Jul-99         V           8         6405041         AT&T Wireless         United States         15-Apr-02         24-Jun-03         11-Jun-02		006066	201502	AT&T Wireless	Taiwan	15-Jul-97	11-Sep-98	Mobile Station TMSI
19-06-066   19-06-06		86109994	94590	2000		90 1:1	21-Mar-00	Method for Allocating a Mobile Station TMSI
7547096   713550   AT&T Wireless   Australia   19-Dec-96   16-Mar-00   5		08/688626	6039624	AT&T Wireless	United States	08-INC-87		Method and Apparatus for
9606032	_	. 75470/96	713550	AT&T Wireless	Australia	19-Dec-96	16-Mar-00	Wireless Communication System Organization Method and Apparatus for
9606032				AT&T Witeless	Brazil	17-Dec-96		Wireless Communication System Organization
2190552 2190552 AT&T Wireless Canada 18-Nov-96 24-Oct-00 S W W W W W W W W W W W W W W W W W W	~	9606032		Alai Wildias				Method and Apparatus for   Wireless Communication
1902564.1   2308952   AT&T Wireless   Great Britain   09-Dec-96   08-Mar-00   Str.		240050	2100552	AT&T Wireless	Canada	18-Nov-96	24-Oct-00	System Organization Method and Apparatus for
9625564.1   2308952		7190227			Great Britain	96-09-00	08-Mar-00	Wireless Communication System Organization
2096/MAS/96	8	9625564.1	2308952	A I & I WITEIESS	100			Method and Apparatus for Wireless Communication
2096/MAS/300				AT&T Wireless	India	22-Nov-96		System Organization
338822         AT&T Wireless         Japan         19-Dec-96         S           08/575974         5878328         AT&T Wireless         United States         21-Dec-95         02-Mar-99         02-Mar-99           v         86108830         101482         AT&T Wireless         Talwan         24-Jun-97         05-Jul-99           c         08/669805         6405041         AT&T Wireless         United States         27-Jun-96         11-Jun-02           3.C1         10/123466         6584317         AT&T Wireless         United States         15-Apr-02         24-Jun-03           3.C1         10/123466         6584317         AT&T Wireless         Canada         22-Nov-96         14-Dec-99		2096/MAS/90						Wireless Communication
338822  08/575974  5878328  AT&T Wireless  United States  24-Jun-97  05-Jul-99  06-Jul-99  08/669805  6405041  AT&T Wireless  United States  27-Jun-96  11-Jun-02  24-Jun-03  24-Jun-03  4T&T Wireless  United States  15-Apr-02  24-Jun-03  4T&T Wireless  Canada  22-Nov-96  14-Dec-99				AT&T Wireless	Japan	19-Dec-96		System Organization
08/575974         5878328         AT&T Wireless         United States         21-Dec-95         02-Mar-99         22-Jun-97         05-Jul-99           86108830         101482         AT&T Wireless         Taiwan         24-Jun-97         05-Jul-99         11-Jun-02           08/669805         6405041         AT&T Wireless         United States         27-Jun-96         11-Jun-02           C1         10/123466         6584317         AT&T Wireless         United States         15-Apr-02         24-Jun-03           AT&T Wireless         Canada         22-Nov-96         14-Dec-99		338822						Wireless Communication
86108830         101482         AT&T Wireless         Taiwan         24-Jun-97         05-Jul-99           08/669805         6405041         AT&T Wireless         United States         27-Jun-96         11-Jun-02           C1         10/123466         6584317         AT&T Wireless         United States         15-Apr-02         24-Jun-03           AT&T Wireless         Canada         22-Nov-86         14-Dec-99	ග	08/575974	5878328	AT&T Wireless	United States	21-Dec-95	02-Mar-99	Concurrent Ringing on
86108830         101482         AT&T Wireless         Inited States         27-Jun-96         11-Jun-02           C1         10/123466         6584317         AT&T Wireless         United States         15-Apr-02         24-Jun-03           C1         10/123466         6584317         AT&T Wireless         Canada         22-Nov-96         14-Dec-99					Towns	24-Jun-97	05-Jul-99	Multiple Network Telephones
C1         10/123466         6405041         AT&T Wireless         United States         27-Jun-96         11-Jun-02           C1         10/123466         6584317         AT&T Wireless         United States         15-Apr-02         24-Jun-03           AT&T Wireless         Canada         22-Nov-96         14-Dec-99	3	86108830	101482	AT&T Wireless	- IDANIB			Concurrent Ringing on Multiple Network
C1 10/123466 6584317 AT&T Wireless United States 15-Apr-02 24-Jun-03 AT&T Wireless Canada 22-Nov-96 14-Dec-99					States States	27-Jun-96	11-Jun-02	Telephones
C1 10/123466 6584317 AT&T Wireless United States 15-Apr-02 24-Jun-03 (AT&T Wireless Canada 22-Nov-96 14-Dec-99	S	08/669805	6405041	Al&i Wireless				Concurrent Kinging on Multiple Network
C1 10/123466 6584317 A1&1 Wileless Canada 22-Nov-96 14-Dec-99				and mileton	1 Inited States	15-Apr-02	24-Jun-03	Telephones
22-Nov-96 14-Dec-99 14-Dec-99	1S.C1	10/123466	6584317	Alai Wildias				Packet Data Transmission Using Dynamic Channel
7,238552	247.CA	2238552	2238552	AT&T Wireless	Canada	22-Nov-96	14-Dec-99	Assignment

Application	Patent	Owner	Country	Application Date	Grant Date	Title
		AT&T Wireless	European Patent	22-Nov-96		Packet Data Transmission Using Dynamic Channel Assignment
90959741.3	205488	AT&T Wireless	Mexico	22-Nov-96	13-Dec-01	Packet Data Transmission Using Dynamic Channel Assignment
904260 904 1100	004507	Section 1914	Patent Cooperation Treat	22-Nov-96		Packet Data Transmission Using Dynamic Channel Assionment
PC1/03/90/16/43	5700551	AT&T Wireless	United States	28-Nov-95	04-Aug-98	Packet Data Transmission Using Dynamic Channel Assignment
						Method and Apparatus for Providing
					·	l elecommunication Services Based on a Subscriber Profile Updated by a Personal Information
384115		AT&T Wireless	Brazil	19-May-97		Manager
						Method and Apparatus for Providing
						Services Based on a Subscriber Profile Updated by a Personal Information
2228169	2228169	AT&T Wireless	Canada	19-May-97	18-Feb-03	Manager
						Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Public III Industed
07026602.3		AT&T Wireless	European Patent Convention	19-May-97		by a Personal Information Manager
0.300000						Method and Apparatus for Providing Telecommunication Services Based on a Subscriber Profile Updated
10-500600		AT&T Wireless	Japan	19-May-97	·	by a Personal Information Manager
					6	Method and Apparatus for Providing Telecommunication Societies Based on a
980829	214649	AT&T Wireless	Mexico	19-May-97	08-2001-03	Services Desper Oil a

Number	1	Application	Patent		Country	Application	Grant	Tite
7708455 AT&T Wireless Norway 19-May-97 Patent Cooperation 19-May-97 P Patent Cooperation 19-May-97 P P P P P P P P P P P P P P P P P P P		Number	Number	Owner	Name	Date		Subscriber Profile Updated
7708455 AT&T Wireless Norway 19-May-97 Norway Norway 19-May-97 Norway Norwa	<u> </u>							by a Personal Information Manager
AT&T Wireless Norway 19-May-97 Norway 19-May-97 Norway 19-May-97 Norway 19-May-97 Norway Norway 19-May-97 Norway Norway 19-May-97 Norway Norwa								Method and Apparatus for
AT&T Wireless Norway 19-May-97 Norway 19-May-97 Norway 19-May-97 Norway 19-May-97 Norway 19-May-97 Norway Norway 19-May-97 Norway Norwa	4							Providing
Same								Telecommunication
Same   AT&T Wireless   Norway   19-May-97   Norway   19-May-97   Norway   Norway   19-May-97   Norway   Norwa								Services Based on a
AT&T Wireless Norway 19-May-97 Norway Norway 19-May-97 Norway Norway 19-May-97 Norway								Subscriber Profile Updated
Norway   19-May-97   Norway   19-May-97   Norway   Norw								by a Personal Information
Patent Cooperation   19-May-97   18-Jun-98   11-Jun-97   18-Jun-98   11-Jun-97   13-Jun-97   13-Jun-		•		2001011417074	Norway	19-May-97		Manager
Patent Cooperation   19-May-97   S   S   S   S   S   S   S   S   S	_	19980461		Al&I WIREESS	1			Method and Apparatus for
Patent Cooperation	╁							Providing
Patent Cooperation   19-May-97   Solution   19-May-97   No.   No								Telecommunication
Patent   Cooperation   19-May-97   Solution   Cooperation   19-May-97   Solution   Cooperation   C	-							Services Based on a
AT&T Wireless   Treaty   19-May-97   18-Jun-98   11-Jun-97   18-Jun-98   11-Jun-97   18-Jun-98   11-Jun-97   18-Jun-99   11-Jun-97   18-Jun-92   18-Jun-97   18-Jun-97   18-Jun-99   11-Jun-97   18-Jun-97   18-	_				Datent			Subscriber Profile Updated
## AT&T Wireless Treaty 19-May-97    93010					Conoration			by a Personal Information
### State			<u>-</u>		Cooperation	10.May-07		Manager
93010 AT&T Wireless Taiwan 30-May-97 18-Jun-98 1		DCT/11007/08455		AT&T Wireless	Ireaty	19-Yelvidy-61		Method and Apparatus for
93010 AT&T Wireless Talwan 30-May-97 18-Jun-98 18-Jun-98 04-Jun-96 03-Aug-99	†	TOTAL STATE OF THE						Providing
93010 AT&T Wireless Taiwan 30-May-97 18-Jun-98 1								Telecommunication
93010 AT&T Wireless Taiwan 30-May-97 18-Jun-98 1 13-Jun-98 1	_					-		Services Based on a
93010 AT&T Wireless Taiwan 30-May-97 18-Jun-98 18-Jun-98 5933778 AT&T Wireless United States 04-Jun-97 03-Aug-99 AT&T Wireless Brazil 11-Jun-97 22-Jan-02 22-Jan-02								Subscriber Profile Opdated
93010         AT&T Wireless         Taiwan         30-May-97         18-Jun-96           5933778         AT&T Wireless         United States         04-Jun-96         03-Aug-99           AT&T Wireless         Brazil         11-Jun-97         22-Jan-02           2237597         AT&T Wireless         Canada         11-Jun-97         22-Jan-02								by a Personal Information
93010 A1&1 Wireless Canada 11-Jun-97 22-Jan-02					Towar	30-May-97	18-Jun-98	Mariagei
5 5933778 AT&T Wireless United States 04-Jun-96 03-Aug-99 5 AT&T Wireless Brazil 11-Jun-97 77 AT&T Wireless Canada 11-Jun-97 22-Jan-02		86107435	93010	AT&T WIREIESS	diwaii			Method and Apparatus for
5 2237597 AT&T Wireless United States 04-Jun-96 03-Aug-99 States United States 04-Jun-97 AT&T Wireless Brazil 11-Jun-97 AT&T Wireless Canada 11-Jun-97 22-Jan-02								Telecommunication
5 2237597 AT&T Wireless United States 04-Jun-96 03-Aug-99 AT&T Wireless Brazil 11-Jun-97 AT&T Wireless Canada 11-Jun-97 22-Jan-02					· ·	•		Services Based on a
5 5933778 AT&T Wireless United States 04-Jun-96 03-Aug-99 5 AT&T Wireless Brazil 11-Jun-97 77 AT&T Wireless Canada 11-Jun-97 22-Jan-02								Subscriber Profile Updated
5 AT&T Wireless United States 04-Jun-96 03-Aug-99 15 AT&T Wireless Brazil 11-Jun-97 AT&T Wireless Canada 11-Jun-97 22-Jan-02				-				by a Personal Information
5 AT&T Wireless United States Grant Canada 11-Jun-97 AT&T Wireless Canada 11-Jun-97 22-Jan-02		•			Code C	96-1110-06	03-Aug-99	Manager
5 AT&T Wireless Brazil 11-Jun-97 AT&T Wireless Canada 11-Jun-97 22-Jan-02		070000	5933778	AT&T Wireless	United States	20110010		Method and Apparatus for
AT&T Wireless Brazil 11-Jun-97 2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02		00000						Maintaining Channel
AT&T Wireless Brazil 11-Jun-97 2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02								Priority in a Multiple
AT&T Wireless Brazil 11-Jun-97 2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02	٠.						-	Wireless Communication
AT&T Wireless Brazil II-Juin-97 22-Jan-02						44 1,10 07		System Environment
22-Jan-02 AT&T Wireless Canada 11-Jun-97 22-Jan-02	٠.	2320000		AT&T Wireless	Brazil	11-2011-97		Method and Apparatus for
2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02		SCC00/6				<u></u>		Maintaining Channel
2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02						-		Priority in a Multiple
2237597 AT&T Wireless Canada 11-Jun-97 22-Jan-02	•							Wireless Communication
2237597 AT&T Wireless Calidua					· cposed	11_hm-97	22~Jan-02	System Environment
		2237507	2237597	AT&T Wireless	Canada			. <u>-</u> .

Title	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless	Method and Apparatus for Maintaining Channel Priority in a Multiple Wireless Communication System Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment	A Method for Selecting a Preferable Wireless Communications Service Provider in a Multi-Service Provider Environment
Grant Date	06-Jul-01	16-Dec-98	12-Oct-99	01-May-01	21-May-03	21-May-03		21-May-03
Application Date	11-Jun-97	23-Jun-97	28-Jun-96	21-Oct-96	12-Dec-96	12-Dec-96	12-Dec-96	12-Dec-96
Country	Mexico	Taiwan	United States	Canada	Germany	European Patent Convention	European Patent Convention	France
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent	202891	2002	5966642	2188329	69628270	770753		779753
Application		eg eg	08/672898	2188329	96120010.2	08120010.2	3011438.3	96120010.2
Docket			250.US	252.CA	252.DE	253 EDC	252 EPC D1	252.FR

ket         Application         Patent Number         Owner         Country Name         And Manage           100         Number         Number         Owner         Name         Name           100         Number         Number         Name         12           100         966232         AT&T Wireless         Mexico         09           100         966232         AT&T Wireless         United States         17           100         100/570904         6418318         AT&T Wireless         United States         17           100         100/570904         6782259         AT&T Wireless         United States         17           100         100/570904         6782259         AT&T Wireless         United States         17           100         100/570904         6782259         AT&T Wireless         Ganada         17           100         100/570904         179752         AT&T Wireless         Germany         100           100         1779752         AT&T Wireless         Gornention         100								
Number   Number   Owner   Native	Docket	Application	Patent		Country	Application Date	Grant Date	Title
966232	Number	Number	Number	Owner	Name			A Method for Selecting a
966232 AT&T Wireless Great Britain 12-Dec-96 21 966232 AT&T Wireless Mexico 09-Dec-96 08/570904 6418318 AT&T Wireless United States 12-Dec-95 09 C1 10/099944 6782259 AT&T Wireless United States 19-Mar-02 2 AT&T Wireless United States 19-Mar-02 2 AT&T Wireless Canada 21-Oct-96 6 AT&T Wireless Canada 21-Oct-96 6 AT&T Wireless Canada 21-Oct-96 6 AT&T Wireless Canada 12-Dec-96 6 AT&T Wireless AT&								Preferable Wireless
Section   12-Dec-96   21				-				Communications service
Security								Provider in a Multi-Service
966232   779753   AT&T Wireless   Order Chief			-			12-Dec-96	21-May-03	Provider Environment
966232   AT&T Wireless   Mexico   09-Dec-96	252.GB	96120010.2	779753	AT&T Wireless	T			A Method for Selecting a
956232   Mexico   09-Dec-96								Preferable Wireless
966232   Mexico   09-Dec-96								Communications Service
966232   Mexico   09-Dec-96	-							Provider in a Multi-Service
966232   Mexico   United States   12-Dec-95   Of		•				90 000		Provider Environment
Columbia	711	066232		AT&T Wireless		08-080-80		A Method for Selecting a
OBJS70904   6418318   AT&T Wireless   United States   12-Dec-95   09	VM:707							Preferable Wireless
Obj. 570904   6418316   AT&T Wireless   United States   12-Dec-85   00								Communications Service
06/570904 6418318   AT&T Wireless   United States   12-Dec-95   05						•		Provider in a Multi-Service
C1   10/09994   678259   AT&T Wireless   United States   19-Mar-02   2   2   2   2   2   3   3   3   3				•	7	42 Doc 05	09-101-02	Provider Environment
C1 10/099944 678259 AT&T Wireless United States 19-Mar-02 2  C1(1) mailed AT&T Wireless United States 26-May-04  C1(1) mailed AT&T Wireless United States 26-May-04  AT&T Wireless Canada 21-Oct-96  E 69632713.9.08 779752 AT&T Wireless Germany 12-Dec-96  PC 96120005.2 779752 AT&T Wireless Convention 12-Dec-96  AT&T Wireless Convention 12-Dec-96  AT&T Wireless Convention 12-Dec-96  AT&T Wireless Convention 12-Dec-96	2116	08/570904	6418318	AT&T Wireless	United States	15-Dec-33		A Method for Selecting a
(1) mailed AT&T Wireless United States 19-Mar-02 2  AT&T Wireless United States 26-May-04  AT&T Wireless Canada 21-Oct-96  69632713.9.08 779752 AT&T Wireless Germany 12-Dec-96  96120005.2 779752 AT&T Wireless Convention 12-Dec-96  ADATA Wireless Convention 12-Dec-96  ADATA Wireless Convention 12-Dec-96	60707	200000						Preferable Wireless
10/099944   6782259   AT&T Wireless   United States   19-Mar-02   2								Communications Service
(1)         malled         AT&T Wireless         United States         19-Mar-02         2           (1)         malled         AT&T Wireless         United States         26-May-04           2188333         2188333         AT&T Wireless         Canada         21-Oct-96         6           69632713.9-08         779752         AT&T Wireless         Germany         12-Dec-96         6           96120005.2         779752         AT&T Wireless         Convention         12-Dec-96         AT&T Wireless								Provider in a Multi-Service
10/099944   6782259   AT&T Wireless   United States   13-War-12.			-			40 Mar 02	24-A110-04	Provider Environment
(1) mailed AT&T Wireless United States 26-May-04  2188333 AT&T Wireless Canada 21-Oct-96 ( 69632713.908 779752 AT&T Wireless Germany 12-Dec-96 96120005.2 779752 AT&T Wireless Convention 12-Dec-96	40 01 010	10,000011	6782259	AT&T Wireless	United States	19-Mar-02	S ROULT	A Method for Selecting a
mailed         AT&T Wireless         United States         26-May-04           2188333         2188333         AT&T Wireless         Canada         21-Oct-96         0           69632713.908         779752         AT&T Wireless         Germany         12-Dec-96         0           96120005.2         779752         AT&T Wireless         Convention         12-Dec-96         0	252.05.01	10/03344						Preferable Wireless
mailed         AT&T Wireless         United States         26-May-04           2188333         2188333         AT&T Wireless         Canada         21-Oct-96         0           69632713.908         779752         AT&T Wireless         Germany         12-Dec-96           96120005.2         779752         AT&T Wireless         Convention         12-Dec-96								Communications Service
mailed         AT&T Wireless         United States         26-May-04           2188333         AT&T Wireless         Canada         21-Oct-96           69632713.9.08         779752         AT&T Wireless         Germany         12-Dec-96           96120005.2         779752         AT&T Wireless         Convention         12-Dec-96							_	Provider in a Multi-Service
mailed         AT&T Wireless         Ornted States         27-Oct-96           2188333         AT&T Wireless         Canada         21-Oct-96           69632713.9.08         779752         AT&T Wireless         Germany         12-Dec-96           96120005.2         779752         AT&T Wireless         Convention         12-Dec-96	•				11-ited Ototos	28-May-04		Provider Environment
2188333 2188333 AT&T Wireless Canada 21-Oct-96 6 69632713.908 779752 AT&T Wireless Germany 12-Dec-96 96120005.2 779752 AT&T Wireless Convention 12-Dec-96	252 HS C1/1)	mailed		AT&T Wireless	United States	ZO-WIGH -		A Method for Selecting a
2188333 AT&T Wireless Canada 21-Oct-96 (Canada 779752 AT&T Wireless Germany 12-Dec-96 European Patent 12-Dec-96 Convention 12-Dec-96 Co	(1)17:07:707	Highed						Wireless Service Provider
2188333 AT&T Wireless Canada 21-Oct-96 (69632713.9.08 779752 AT&T Wireless Germany 12-Dec-96 European Patent Convention 12-Dec-96 (Convention 12-Dec-96 (C								in a Multi-Service Provider
2188333 AT&T Wireless Canada 21-Oct-96 6 69632713.908 779752 AT&T Wireless Germany 12-Dec-96 C 96120005.2 779752 AT&T Wireless Convention 12-Dec-96								Environment Using a
2188333 2188333 AT&T Wireless Canada 21-Oct-9b 69632713.908 779752 AT&T Wireless Germany 12-Dec-96 C 96120005.2 779752 AT&T Wireless Convention 12-Dec-96							00 A 10	Geographic Database
69632713.9.08 779752 AT&T Wireless Germany 12-Dec-96 European Patent 12-Dec-96 C 96120005.2 779752 AT&T Wireless Convention 12-Dec-96		2400222	2188333	AT&T Wireless	Canada	21-Oct-96	70-And-00	Method for Selecting a
69632713.908 779752 AT&T Wireless Germany 12-Dec-96 European Patent 12-Dec-96 Convention 12-Dec-96	253.CA	4.100000						Wireless Service Provider
69632713.908 779752 AT&T Wireless Germany 12-Dec-96  European Patent 12-Dec-96  Convention 12-Dec-96								in a Multi-Service Provider
69632713.908 779752 AT&T Wireless Germany 12-Dec-96 European Patent 12-Dec-96 Convention 12-Dec-96							_	Environment Using A
69632713.908 779752 AT&T Wireless Certificity 12-Dec-96  European Patent 12-Dec-96  Convention 12-Dec-96					700	12.Dec-96	16-Jun-04	Geographic Database
European Patent 12-Dec-96 Convention 12-Dec-96	253.DE	69632713.908	779752	AT&T Wireless	Germany	2222-21		Method for Selecting a
European Patent 12-Dec-96 Convention 12-Dec-96 Convention 12-Dec-96 Convention 12-Dec-96 Convention 12-Dec-96								Wireless Service Provider
European Patent 12-Dec-96 Sel 20005.2 779752 AT&T Wireless Convention 12-Dec-96								in a Multi-Service Provider
96120005.2 779752 AT&T Wireless Convention 12-Dec-96				•	Furnnean Patent			Environment Using A
96120005.2 779752 AT&I WITGIBSS CONTROLLES	-		_		Convention	12-Dec-96	16-Jun-04	Geographic Database
90-791-20	253.EPC	96120005.2	779752	AT&T WIREIESS	COLINGING			A Method for Selecting a
90,000				<del></del>				Wireless Service Provider
1						•	100	Envisorment I Ising a
Mexico			202750	AT&T Wireless	Mexico	09-Dec-96	1 02-201-01	

Title	Geographic Database	A Method for Selecting a Wireless Service Provider in a Multi-Service Provider Environment Using a Geographic Database	Wireless Communication Service Management	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Wireless Communication Device With Call Screening	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System	Method for Determining Organization Parameters in a Wireless Communication System				
	Geogral	A Metho Wireless in a Mul Environ	Wireles: Service	Wireles: Service	Wireles	Wireles: Service	Wireles: Service	Wireles: Device	Wireles: Device	Wireles: Device	Method 1 Organiza a Wirele: System	Method f Organiza a Wireles System	Method Organiz a Wirele System	Method Organiz a Wirele System
Grant Date		18-May-99	14-Oct-03		02-Sep-02	12-Jan-00	26-Dec-00	30-Mar-04	20-May-03		24-Oct-02			23-Apr-02
Application Date		12-Dec-95	03-Feb-98	03-Feb-98	03-Feb-98	09-Feb-98	27-Feb-97	11-Aug-98	11-Aug-97	02-Apr-03	01-Apr-97	20-Mar-02	27-Mar-97	06-Mar-97
Country Name		United States	Canada	European Patent Convertion	Mexico	Taiwan	United States	Canada	United States	United States	Australia	Australia	Brazil	Canada
Owner		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number		5905955	2282443		210069	106908	6167261	2244682	6567671		749334			2199310
Application Number		08/570903	2282443	98904684.2	997818	87101700	08/810959	2244682	08/909387	10/406912	16648/97	773877	126070	2199310
Docket Number		253.US	255.CA	255.EPC	255.MX	255.TW	255.US	256.CA	256.US	256.US.D1	258.AU	258.AU.D1	258 BR	258.CA

						•	
Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Naille			Method for Determining
2011							Organization Parameters in
							a Wireless Communication
			AT9T Wireless	Great Britain	01-Apr-97	11-Oct-00	System
258.GB	9706533.8	Z31191ZB	Alai Wildias			ļ <u> </u>	Method for Determining
					••		Organization Parameters In
			:				a Wireless Communication
			4464141141	1001	04-Apr-97		System.
258.IN	717/MAS/97		A I & I WITBIESS	RIGIO			Method for Determining
							Organization Parameters in
							a Wireless Communication
					04.Apr.07		System
258 JP	85443/1997		AT&T Wireless	Japan	2000		Method for Determining
							Organization Parameters in
							a Wireless Communication
			Coclosial Fore	I Inited States	04-Apr-96	17-Dec-02	System
258.US	08/628214	6496700	Al & Wireless	Composition of the composition o			Method for Determining
							Organization Parameters in
							a Wireless Communication
				I toited States	25-Feb-02	-	System
258.US.D2	10/082402		AT&I Wireless	Ollifed Orates			Method and System for
							Automatic Activation of a
	-			Brozi	15-Jul-97		Wireless Device
260.BR	1992490		Al & Wireless	019211			Method and System for
							Automatic Activation of a
				Capada	03-101-97	12-Jun-01	Wireless Device
260.CA	2209528	2209528	A I & I WIREIESS	Callada			Method and System for
				Furopean Patent		<u>.</u>	Automatic Activation of a
			A TO T Milabor	Convention	26-Jun-97		Wireless Device
260.EPC	97304542		Al&I Wireless				Method and System for
					;		Automatic Activation of a
_			A TOT Mississis	Lanan	16-Jul-97		Wireless Device
260.JP	190864/1997		AIGI WIIGIGSS	10000			Method and System for
							Automatic Activation of a
		-	220/05/14/1-07-4	Mexico	08-Jul-97	14-Mar-02	Wireless Device
260.MX	975114	207169	A I & I WITEIESS	SOLVOIN			Method and System for
							Automatic Activation of a
			2001-1141 7074	Norway	08-Jul-97		Wireless Device
260.NO	19973158		AIGI WIIGIGSS	- Campai			Method and System for
	-						Automatic Activation of a
			ATOT Wireless	Taiwan	09-Jul-97	16-Nov-98	Wireless Device
260.TW	86109681	95961	AIGH WHICHOS				Method and System for
						•	Automatic Activation of a
		20202	AT&T Wireless	United States	16-Jul-96	21-Sep-99	Wireless Device

,	1				т	<del></del>			Γ		_				ı		
Title	TDMA Messaging Service Microcell	TDMA Messaging Service Microcell	TDMA Messaging Service	TDMA Messaging Service	TDMA Messaging Service	TDMA Messaging Service Microcell	Method for Optimal Selection Among Multiple Providers in a Wireless	ions Service	Method for Optimal Selection Among Multiple	a Wireless Ions Service	i in in	Metrool for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	Method for Optimal Selection Among Multiple Providers in a Wireless	ions Service	Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	Method and Apparatus for
L	TDMA Mess	TDMA Mess	TDMA Mess	TDMA Mess	TDMA Mess	TDMA Mess	Method for Optimal Selection Among Multip Providers in a Wireless	Communications Service Environment	Method for Optimal Selection Among M	Providers in a Wireless Communications Service	Mothod for O	Selection Among Multiple Selection Among Multiple Providers in a Wireless Communications Service Environment	Method for Optimal Selection Among Multip Providers in a Wireless	Communications Service Environment	Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	Method for Optimal Selection Among Multiple Providers in a Wireless Communications Service Environment	Method and
Grant Date	01-Jun-04				23-Feb-99			10-Dec-02		   07-1an-03	20-100-10	•			18-Sep-98	01-Dec-98	01-Jan-02
tion														•			e <del>r</del>
Application Date	02-Jun-97	02-Jun-97	02-Jun-97	02-Jun-97	28-Jun-96	09-Oct-98		24-Jun-97		24- hm-97	0.100	24-Jun-97	· 	14-Dec-98	24-Jun-97	28-Jun-96	19-Sep-97
Country Name	Canada	European Patent Convention	Japan	Mexico	United States	United States		Brazil		Canada	20000	European Patent Convention		Japan	Taiwan	United States	Canada
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless		AT&T Wireless		AT&T Wireless	2000	AT&T Wireless		AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	2259329				5875187			9710455-8		2259230	2070077				94720	5845198	2215819
Application Number	2259329	97927794.4	10-504109	990211	08/672769	09/168919		9710455-8		2259230		97932326.8		10-504316	86108823	08/672907	2215819
Docket Number	262.CA	262.EPC	262.JP	262.MX	262.US	262.US.C1		263.BR		263.CA		263.EP.C		263.JP	263.TW	263.US	265.CA

Number   N	1	A Citable	Patent		Country	Application	Grant	Title
212046 AT&TWIreless Mexico 06-Oct-97 13-Dec-02 Properties 06-Oct-96 29-Jan-02 Properties 06-Oct-96 09-Jan-02 Properties 06-Oct-96 09-Jan-02 Properties 06-Oct-96 09-Jan-02 Properties 06-Oct-96 09-Jan-02 Properties 06-Jan-03 Dropen Patent 06-Oct-96 09-Jan-02 Properties 06-Jan-03 Dropen Patent 06-Oct-96 09-Jan-03 Dropen Patent 06-Oct-96 09-Jan-03 Dropen Dropen Patent 06-Oct-96 09-Jan-03 Dropen Dr		Nimber	Number	Owner	Name	Date	Date	Providing a Caller ID Alias
107516   AT&T Wireless	.(							Method and Apparatus for
212046         AT&T Wireless         Mexico         United States         United States         United States         19-Jan-92         PM           4         107516         AT&T Wireless         Talwan         19-Jan-98         31-Jan-00         PM           13         5953652         AT&T Wireless         United States         24-Jan-97         14-Sep-99         PM           13         6006087         AT&T Wireless         United States         19-Mov-99         09-Jul-02         PM           10         AT&T Wireless         United States         15-Mov-99         09-Jul-02         PM           10         AT&T Wireless         Canada         27-Oct-98         DM         DM           12         AT&T Wireless         Convention         25-Nov-96         DM         DM           13         AT&T Wireless         Convention         25-Nov-96         DM         DM           13         AT&T Wireless         United States         02-Dec-97         07-Oct-03           13         AT&T Wireless         United States         02-Dec-97         07-Oct-03           13         AT&T Wireless         United States         02-Dec-97         07-Oct-03           12         AT&T Wireless         Canada						70, 50	13-Dec-02	Providing a Caller ID Alias
107516   1	_	77677	212046	AT&T Wireless	+	00-001-31		Method and Apparatus for
10 107516 AT&TWireless Talwan 19-Jan-99 11-Jan-00 N 107516 AT&TWireless United States 24-Jan-97 14-Sep-99 N 107516 AT&TWireless United States 10-Apr-97 21-Dec-99 N 107516 AT&TWireless Canada 19-May-02 N-May-02 N-May-03 AT&TWireless Canada 19-May-97 12-Sep-00 N-Cot-03 N-May-07 N-May				AT&T Wireless	United States	08-Oct-96	29-Jan-02	Providing a Caller IU Allas
107516   AT&T Wireless   Talwan   19-Jan-56   J. Jan-20   Dec.99   R		2007953	6343120	AIGI WIICIGSS			21-120-00	Registered Mobile Phones
Septiment   Septiment   States   24-Jan-97   14-Sep-99   R		87100664	107516	AT&T Wireless	Taiwan	19-Jan-98	20-186-16	Detection of Fraudulently
595,365.2   AT&T Wireless   United States   10-Apr-97   21-Dec-99   P.				STOT Mission	United States	24-Jan-97	14-Sep-99	Registered Mobile Phones
6418307 AT&T Wireless United States 10-Apr-97 21-Dec-99 United States 29-Nov-99 09-Jul-02 AT&T Wireless Canada 27-Oct-98 European Patent 25-Nov-98 AT&T Wireless Wexico 30-Nov-98 AT&T Wireless United States 02-Dec-97 07-Oct-03 AT&T Wireless Brazil 19-May-97 12-Sep-00 2228139 AT&T Wireless Canada 19-May-97 12-Sep-00		-65895	5953652	Algi Wildias				Method and System for
6418307 AT&T Wireless United States 10-Apr-97 21-Dec-99 Nov-99 (99-Jul-02 17-Dec-99 Nov-99 No				-				Notification to a Subscriber
6418307 AT&T Wireless United States 10-Apr-97 21-Dec-99 N AT&T Wireless United States 29-Nov-99 09-Jul-02 AT&T Wireless Canada 27-Oct-98 Convention 25-Nov-98 AT&T Wireless Mexico 30-Nov-98 AT&T Wireless United States 02-Dec-97 07-Oct-03 AT&T Wireless United States 02-Dec-97 07-Oct-03 AT&T Wireless United States 19-May-97 12-Sep-00 AT&T Wireless Canada 19-May-97 12-Sep-00						•		Using Cellular Phone
6418307 AT&T Wireless United States 29-Nov-99 09-Jul-02  AT&T Wireless United States 29-Nov-99 09-Jul-02  AT&T Wireless Canada 27-Oct-98  AT&T Wireless Convention 25-Nov-98  AT&T Wireless Mexico 30-Nov-98  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless United States 19-May-97 12-Sep-00					Sofoto Fortal	10.Anr.97	21-Dec-99	Network
6418307 AT&T Wireless United States 29-Nov-99 09-Jul-02  AT&T Wireless United States 15-May-02  AT&T Wireless Canada 27-Oct-98  European Patent Convention 25-Nov-98  AT&T Wireless Mexico 30-Nov-98  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless United States 02-Dec-97 12-Sep-00  AT&T Wireless Canada 19-May-97 12-Sep-00		08/838613	6006087	AT&T Wireless	United States	5-10-10-1		Method and System for
6418307 AT&T Wireless United States 29-Nov-99 09-Jul-02  AT&T Wireless Canada 27-Oct-98  European Patent Convention 25-Nov-98  AT&T Wireless Mexico 30-Nov-98  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless Canada 19-May-97 12-Sep-00				1				Delivering a Voice Mail
## AT&T Wireless   United States   29-Nov-99   09-Jul-02    AT&T Wireless   United States   15-May-02    AT&T Wireless   Canada   27-Oct-98    European Patent   25-Nov-98    Convention   25-Nov-98    AT&T Wireless   Mexico   30-Nov-98    AT&T Wireless   United States   02-Dec-97   07-Oct-03    AT&T Wireless   Brazil   19-May-97   12-Sep-00					·			Notification to a Subscriber
AT&T Wireless   United States   29-Nov-99   09-Jul-02		-						Using Cellular Phone
AT&T Wireless United States 15-May-02  AT&T Wireless Canada 27-Oct-98  European Patent Convention 25-Nov-98  AT&T Wireless Mexico 30-Nov-98  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless Brazil 19-May-97 12-Sep-00					. United States	29-Nov-99	09-Jul-02	Network
AT&T Wireless United States 15-May-02  AT&T Wireless Canada 27-Oct-98  European Patent Convention 25-Nov-98  AT&T Wireless Mexico 30-Nov-98  AT&T Wireless United States 02-Dec-97 07-Oct-03  AT&T Wireless Canada 19-May-97 12-Sep-00		09/448904	6418307	AT&T Wireless	Course Course			Method and System for
AT&T Wireless         United States         15-May-02           AT&T Wireless         Canada         27-Oct-98           T         AT&T Wireless         Convention         25-Nov-98           AT&T Wireless         Mexico         30-Nov-98           AT&T Wireless         United States         02-Dec-97         07-Oct-03           AT&T Wireless         Brazil         19-May-97         12-Sep-00           2228139         AT&T Wireless         Canada         19-May-97         12-Sep-00	_							Delivering a voice Iviali
AT&T Wireless United States 15-May-02 N N N N N N N N N N N N N N N N N N N								Notification to a Sussement
AT&T Wireless United States 15-May-02 N D D D D D D D D D D D D D D D D D D	_							Using Cellular Thomas
AT&T Wireless Canada 27-Oct-98 Nation 27-Oct-98 Canada 27-Oct-98 Nation 25-Nov-98 Convention 25-Nov-98 Nexico 30-Nov-98 Nexico 30-Nov-98 Nexico 30-Nov-98 Nat. Wireless Brazil 19-May-97 Nat. Wireless Canada Nat. W					Linited States	15-May-02		Network for
AT&T Wireless   Canada   27-Oct-98   No.	_	10/147408		AT&T Wireless	Ollifed Orange			Method and System for
2.7 European Patent European Patent Convention Convention Convention Convention AT&T Wireless Mexico 30-Nov-98	1 -							Delivering a Short-
2.7 European Patent 25-Nov-98 European Patent 25-Nov-98 European Patent AT&T Wireless Convention 30-Nov-98 E630883 AT&T Wireless United States 02-Dec-97 07-Oct-03 AT&T Wireless Brazil 19-May-97 12-Sep-00					Canada	27-Oct-98		Message Nothication
2.7         European Patent Convention         25-Nov-98         Nov-98		2251589		AT&T Wireless	Caliana		<u></u>	Method and System IOI
7         AT&T Wireless         Convention         25-Nov-98         Nov-98           AT&T Wireless         Mexico         30-Nov-98         07-Oct-03           AT&T Wireless         United States         02-Dec-97         07-Oct-03           AT&T Wireless         Brazil         19-May-97         12-Sep-00           22228139         AT&T Wireless         Canada         19-May-97         12-Sep-00		250,100		:	European Patent			Delivering a Short
### AT&T Wireless				ATOT Mirelace	Convention	25-Nov-98		Mothod and System for
AT&T Wireless         Mexico         30-Nov-98         Process		98122142.7		Algi Wildigs				Delivering a Short
6630883         AT&T Wireless         United States         02-Dec-97         07-Oct-03           AT&T Wireless         Brazil         19-May-97         12-Sep-00           2228139         AT&T Wireless         Canada         19-May-97         12-Sep-00						0		Message Notification
6630883         AT&T Wireless         United States         02-Dec-97         07-Oct-03           AT&T Wireless         Brazil         19-May-97         12-Sep-00           2228139         AT&T Wireless         Canada         19-May-97         12-Sep-00				AT&T Wireless	Mexico	30-NOV-30		Method and System for
6630883         AT&T Wireless         United States         02-Dec-97         07-Oct-03           3         2228139         AT&T Wireless         Canada         19-May-97         12-Sep-00		9810043						Delivering a Short
6630883         AT&T Wireless         United States         United States<			. —		: :	02.Doc.07	07-Oct-03	Message Notification
AT&T Wireless Brazil 19-May-97 3 2228139 AT&T Wireless Canada 19-May-97 12-Sep-00		110061	6630883	AT&T Wireless	United States	05-Dec-31		
AT&T Wireless Brazil 19-May-97  AT&T Wireless Canada 19-May-97 12-Sep-00		10871-						Manager for Updating a
AT&T Wireless Brazil 19-May-97  AT&T Wireless Canada 19-May-97 12-Sep-00						-		Telecommunication
AT&T Wireless Drazii - 3-12-3ep-00 3 2228139 AT&T Wireless Canada 19-May-97 12-Sep-00		-				19-Mav-97		Subscriber Profile
3 2228139 AT&T Wireless Canada 19-May-97 12-Sep-00		384268		AT&T Wireless	Diazii			Personal Information
2228139 AT&T Wireless Canada Listractor	1		<del></del>		<del>-</del>	10.Mav.97	12-Sep-00	Telecommunication
		2228139	2228139	AT&T Wireless	Canada	in family		

Docket	Application	Patent	. (	Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Subscriber Profile
				·			Personal Information
							Manager for Updating a
				atent	,		Telecommunication
702 CCC	07075647 6	<del>.</del>	AT&T Wireless	Convention	19-May-97		Personal Information
2/2.EPC	31363041.0					•	Manager for Updating a
. •							Telecommunication
	:		ATOT Mireless	lanan.	04-Sep-02		Subscriber Profile
272.JP.D1	2002-258849		AIGI WIICIGSS				
					:		Manager for Updating a Telecommunication
				Maxico	19-May-97	16-Nov-01	Subscriber Profile
272.MX	980830	205256	AI&I WIREIESS	CONTRACT			Personal Information
							Manager for Updating a
					,		Telecommunication
			AT&T Wireless	Norway	19-May-97		Subscriber Figure
272.NO	19980460						Manager for Undating a
				Patent			Telecommunication
				Cooperation	40 May 07		Subscriber Profile
272 PCT	PCT/US97/08510		AT&T Wireless	lreaty	12-Ividy-31		Personal Information
515:101							Manager for Updating a
						90	Telecommunication
		23000	AT&T Wireless	Taiwan	30-May-97	08-Un-80	- Dersonal Information
272.TW	86107431	92030					Manager for Updating a
							Telecommunication
			and all the same	United States	04-Jun-96	11-May-99	Subscriber Profile
272.US	86777	5903845	AI & I WITEIESS	20000		:	Method for Providing
							Functionality of a Private
		•				:	Exchange
(	7 1000000		AT&T Wireless	Brazil	08-001-80		Method for Providing
281.BK	800008				^		Remote Emulation of the
		· · · · · · · · · · · · · · · · · · ·			-		Functionality of a Private
	•		AT&T Windoce	Canada	09-Oct-98	26-Mar-02	Exchange
281.CA	2249895	2249895	2000				Demote Emilation of the
				Common Datent	: .		Functionality of a Private
		•	AT&T Wireless	Convention	09-Oct-98		Exchange
281.EPC	98308224.9		Alai Wildias				

					1141-2	Grant	: 100 E M
Docket	Application	Patent		Country	Application	Oate	Title
Number	Number	Number	Owner	маше	2		Method for Providing
							Remote Emulation of the Functionality of a Private
					00-0-1-08	22-Nov-02	Exchange
281 MX	988391	211550	AT&T Wireless	Mexico	20.00-60		Method for Providing
VIA. DO							Remote Emulation of the
	•						Functionality of a Private
				Nontrav	09-Oct-98		Exchange
CIN FOC	10084742		AT&T Wireless	NOIWAY			Method for Providing
Z81.NO	120001						Remote Emulation of the
		·					Functionality of a Private
					42 02	26-Feb-01	Exchange
	07115012	121508	AT&T Wireless	Taiwan	12-001-30		Method for Providing
281.1W	01601170						Remote Emulation of the
							Functionality of a Private
				Claired Chatee	10-Oct-97	08-May-01	Exchange
20116	08/948497	6229885	AT&T Wireless	United States			A Method for Allowing a
201.02	2000						Called Party to Allocate
							Call Payment
		-	1	· charge	29-Oct-98	23-Apr-02	Responsibility
282 C.A	2252180	2252180	AT&T Wireless	Canada	2000		A Method for Allowing a
202:00					_		Called Party to Allocate
							Call Payment
				I Inited States	19-Nov-97	16-Apr-02	Responsibility
282 115	08/974394	6373931	A I & I WITEIESS	2000			System for Providing
202:00							Power to a Wireless
				li-co-O	09-Oct-98		System
283 BR	9803890.7		AT&I Wireless	01921		-	System for Providing
		•					Power to a Wireless
				- Parada	09-Oct-98	01-Jan-02	System
283.CA	2249911	2249911	AT&I WIRBIESS	200100			System for Providing
							Power to a wireless
			COOLCENS TOTAL	Mexico	09-Oct-98	15-Oct-02	System
283.MX	988387	210851	AIG! WIEIGSS				Method and System to a   Providing Power to a
				:	70 00	03-101-01	Wireless System
9	00,040777	6256518	AT&T Wireless	United States	10-001-97		Method and System for
283.03	1000000						Providing Power to a
				1 Inited States	10-Apr-01		Wireless System
283.US.CP1	09/828859		A1&1 Wireless				Method and System for
					74 1.50		Wireless System
202116	40/866994		AT&T Wireless	United States	+O-unc-ct		

Docket         Application         Patent Number         Owner         Country Name         Application Date Date Number         Owner         Name         Date Date Date Date Date Date Number           284.UV         86114469         110656         AT&T Wireless         Taiwan         03-0ct-87           285.CA         2202000         2202000         AT&T Wireless         United States         09-0ct-86           285.CA         2202000         AT&T Wireless         Taiwan         05-May-97           285.CA         2202000         AT&T Wireless         Taiwan         05-May-97           285.LW         86105955         92547         AT&T Wireless         Taiwan         05-May-97           286.BR         1877348         AT&T Wireless         Convention         17-Dec-97           286.BR         1877348         AT&T Wireless         Convention         10-Dec-97           286.BR         9-339534         AT&T Wireless         Morway         10-Dec-97           286.BR         9-339534         AT&T Wireless         Morway         10-Dec-97           286.BR         9-339534         AT&T Wireless         Morway         10-Dec-97           286.BR         96-118705         114009         AT&T Wireless         Morway								
logology         Number         Owner         Name           10056         AT&T Wireless         Taiwan         03-Ocd           2088306         5875395         AT&T Wireless         United States         09-Ocd           2088306         5875395         AT&T Wireless         Canada         07-Ap           66105955         92547         AT&T Wireless         Taiwan         05-Ma           1877348         AT&T Wireless         United States         09-Ma           2221660         AT&T Wireless         Canada         20-No           9-339534         AT&T Wireless         Convention         10-De           9-339534         AT&T Wireless         Japan         10-De           9710199         AT&T Wireless         Mexico         16-De           975616         AT&T Wireless         Taiwan         11-De           986118705         114009         AT&T Wireless         Taiwan         11-De           9802303         AT&T Wireless         Canada         17-De<	Docket	Application	Patent		Country	Application	Grant	
86114469         110656         AT&T Wireless         Taiwan         0           2088306         5875395         AT&T Wireless         United States         0           2202000         2202000         AT&T Wireless         Canada         0           86105955         92547         AT&T Wireless         Taiwan         0           08/644027         5645207         AT&T Wireless         Laiwan         0           1877348         AT&T Wireless         Brazil         1           2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Japan         AT&T Wireless         Japan           9730534         AT&T Wireless         Mexico         AT&T Wireless         Japan           9730537.8         AT&T Wireless         Mexico         AT&T Wireless         Japan           9730937.8         AT&T Wireless         Taiwan         AT&T Wireless         Japan           9730937.8         AT&T Wireless         Taiwan         AT&T Wireless         Japan           9730937.8         AT&T Wireless         United States         Japan           9730939.9         AT&T Wireless         United States         Japan           9807303         AT&T	Number	Number	Number	Owner	Name	Date	Date	litle
86114469         110656         AT&T Wireless         Taiwan         0           2088306         5875395         AT&T Wireless         United States         0           2202000         2202000         AT&T Wireless         Canada         0           86105855         92547         AT&T Wireless         Taiwan         0           1877348         AT&T Wireless         United States         0           2221660         AT&T Wireless         Brazil         1           97309357.8         AT&T Wireless         Convention         2           97309357.8         AT&T Wireless         Japan         3           975616         AT&T Wireless         Japan         4           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           9802303         AT&T Wireless         United States           2229649         AT&T Wireless         Canada								Secure Equipment
2088306         3675395         AT&T Wireless         United States         0           2202000         2202000         AT&T Wireless         Canada         0           86105955         92547         AT&T Wireless         Talwan         0           08644027         5845207         AT&T Wireless         United States         0           1877348         AT&T Wireless         Brazil         1           2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         3           97309357.8         AT&T Wireless         Japan         4           975616         AT&T Wireless         Japan         3           86118705         114009         AT&T Wireless         Norway           9802303         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2223649         AT&T Wireless         Canada	284 TW	86114469	110656	AT&T Wireless	Taiwan	03-Oct-97	11-May-00	Personal Base Station
2088306         5875395         AT&T Wireless         United States         0           2202000         2202000         AT&T Wireless         Canada         0           86105955         92547         AT&T Wireless         Talwan         0           08/644027         5845207         AT&T Wireless         United States         0           1877348         AT&T Wireless         Brazili         1           2221660         AT&T Wireless         Canada         2           97309357 8         AT&T Wireless         Convention         2           9710199         AT&T Wireless         Japan         AT&T Wireless         Japan           975816         AT&T Wireless         Mexico         AT&T Wireless         Talwan           86118705         114009         AT&T Wireless         Talwan           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada							•	Secure Equipment Automation Using a
2202000         2202000         AT&T Wireless         Talwan         0           86105955         92547         AT&T Wireless         Talwan         0           1877348         5845207         AT&T Wireless         United States         0           2221660         2221660         AT&T Wireless         Brazil         1           97309357.8         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         2           975816         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           975816         AT&T Wireless         Taiwan           86118705         114009         AT&T Wireless         Taiwan           8612303         AT&T Wireless         Brazil           8602303         AT&T Wireless         Brazil           8602303         AT&T Wireless         Canada           2239649         AT&T Wireless         Canada	284.115	2088306	5875395	AT&T Wireless	United States	09-Oct-96	23-Feb-99	Personal Base Station
2202000         A1&1 Wireless         Cariada           86105955         92547         A1&1 Wireless         Talwan         0           1877348         5845207         A1&1 Wireless         United States         0           2221660         2221660         A1&1 Wireless         Brazil         1           9-339534         A1&1 Wireless         Canada         2           9710199         A1&1 Wireless         Japan           975816         A1&1 Wireless         Japan           975816         A1&1 Wireless         Japan           86118705         114009         A1&1 Wireless         Talwan           9802303         A1&1 Wireless         United States           9802303         A1&1 Wireless         Brazil           4A1&1 Wireless         Canada           A1&2 Wireless         Canada           A1&2 Wireless         Canada           A1&2 Wireless         United States           B61239649         A1&1 Wireless         Canada					0	02 A-c 02	06 1/22 04	Service Transfer to a
86105955         92547         AT&T Wireless         Talwan         G           006/644027         5845207         AT&T Wireless         United States         C           1877348         AT&T Wireless         Brazil         1           2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         3           97309357.8         AT&T Wireless         Japan         3           9730534         AT&T Wireless         Japan         3           9710199         AT&T Wireless         Morway         AT&T Wireless         Talwan           86118705         114009         AT&T Wireless         Talwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada	285.CA	2202000	2202000	Al&I Wireless	Canada	Or-Apr-8/	00-IMBI-01	Service Transfer to a
08/05/4027         5845207         AT&T Wireless         United States         0           1877348         AT&T Wireless         Brazil         1           2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         2           97309357.8         AT&T Wireless         Japan           9730634         AT&T Wireless         Japan           975816         AT&T Wireless         Mexico           975816         AT&T Wireless         Taiwan           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	285 TW	86105955	92547	AT&T Wireless	Taiwan	05-May-97	25-May-98	Wireless Telephone
08/644027         5845207         AT&T Wireless         United States         Convention           1877348         4T&T Wireless         Brazil         1           2221660         2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         3           97309357.8         AT&T Wireless         Japan           9740199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada		200000						Service Transfer to a
1877348         AT&T Wireless         Brazil         1           2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         Convention         2           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada	285.US	08/644027	5845207	AT&T Wireless	United States	09-May-96	01-Dec-98	Wireless Telephone
1877348         AT&T Wireless         Brazil           2221660         2221660         AT&T Wireless         Canada           97309357.8         AT&T Wireless         Convention           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Taiwan           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada			-					System and Method for Betrieving Messages From
2221660         AT&T Wireless         Canada           5         97308357.8         European Patent           9-339534         AT&T Wireless         Convention           9710199         AT&T Wireless         Japan           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Talwan           8602303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada	286 BR	1877348		AT&T Wireless	Brazil	17-Dec-97		a Voice Message System
2221660         AT&T Wireless         Canada         2           97309357.8         AT&T Wireless         European Patent         Convention           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada	10.007	010						System and Method for
2221660         AT&T Wireless         Canada           2239534         AT&T Wireless         European Patent           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada						•		Retrieving Messages From
C         97309357.8         AT&T Wireless         European Patent           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           7         86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	286.CA	2221660	2221660	AT&T Wireless	Canada	20-Nov-97	13-rep-01	a voice Message System
C         97309357.8         AT&T Wireless         Convention           9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           114009         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada					Fironean Datent			System and Messages from
9-339534 AT&T Wireless Japan 9710199 AT&T Wireless Mexico 975816 AT&T Wireless Norway 86118705 114009 AT&T Wireless Taiwan 087766134 6405032 AT&T Wireless United States 9802303 AT&T Wireless Brazil 2239649 AT&T Wireless Canada	200 000	07300357 8	,	AT&T Wireless	Convention	20-Nov-97		a Voice Message System
9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           708/766134         6405032         AT&T Wireless         Taiwan           9802303         AT&T Wireless         United States           2239649         AT&T Wireless         Canada	200.EF.C	0.100000						System and Method for
9-339534         AT&T Wireless         Japan           9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada								Retrieving Messages From
9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	286.JP	9-339534		AT&T Wireless	Japan	10-Dec-97		a Voice Message System
9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada								System and Method for
9710199         AT&T Wireless         Mexico           975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada					,			Retrieving Messages From
97.5816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	286.MX	9710199		AT&T Wirefess	· Mexico	16-Dec-97		a Voice Message System
975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada								System and Method for
975816         AT&T Wireless         Norway           86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada								Retrieving Messages From
86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	286.NO	97:5816		AT&T Wireless	Norway	10-Dec-97		a voice Message System
86118705         114009         AT&T Wireless         Taiwan           08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada						•		System and Method for
08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	. WIT 300	96119706	444000	AT&T Wireless	Taiwan	11-Dec-97	11-Aug-00	a Voice Message System
08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada	Z00.1VV	20101100	200411	200				System and Method for
08/766134         6405032         AT&T Wireless         United States           9802303         AT&T Wireless         Brazil           2239649         AT&T Wireless         Canada							,	Retrieving Messages From
9802303 AT&T Wireless Brazil 2239649 AT&T Wireless Canada	286.US	08/766134	6405032	AT&T Wireless	United States	17-Dec-96	11-Jun-02	a Voice Message System
9802303 AT&T Wireless Brazil 2239649 AT&T Wireless Canada								Method and Apparatus for
9802303 AT&T Wireless Brazil 2239649 AT&T Wireless Canada		·						Providing Partitioned Telecommunication
2239649 AT&T Wireless Canada	207.00	200000		AT&T Wireless	Brazil	26-Jun-98		Services
2239649 AT&T Wireless Canada	Va. /07	2002000		2000				Method and Apparatus for
2239649 AT&T Wireless Canada								Providing Partitioned
2203043	204 0.4	000000		AT&T Wireless	Canada	04-Jun-98		Services
	201.702	2403043						

Number 287.EPC		ן מוכווו		- Tomos	Date	חשופ	9111
87.EPC	NUMBER	Number	Owner	Маще			Method and Apparatus for
87.EPC		· ·		European Patent			Telecommunication
87.EPC			AT&T Wireless	-+	12-Jun-98		Method and Apparatus for
	98304671.5						Providing Partitioned
	· ·						Telecommunication
					24_lin_98		Services
	40 476805		AT&T Wireless	Japan	24-2011-22	i	Method and Apparatus for
287.JP	10-170093		ļ.				Providing Partitioned
			· ———				Telecommunication
•			a TOT Missions	Mexico	24-Jun-98		Mothed and Apparatus for
287.MX	985150		Alái Wireless				Providing Partitioned
		·					Telecommunication
				Tokkon	02-Jun-98	00-unf-20	Services
WT. 785	87108653	111653	AT&T Wireless	Idiwali			Method and Apparatus for Daviding Partitioned
							Telecommunication
				604010 T	76. lin-97		Services
0	08/882804		AT&T Wireless	United States	2000		Method and Apparatus for
207.03	20000						Providing Partitioned
			<del></del> -				Services
			AT&T Wireless	United States	10-Jan-02		System and Method for
287.US.C1	10/041500						Automatic Registration
							Notification for Over-the-Air
				:	44_44_07		Activation
	-		AT&T Wireless	Brazil	14-001-91		System and Method for
288.BR	9/0390/						Automatic Registration Notification for Over-the-Air
	-					20-Mar-01	Activation
		2208601	AT&T Wireless	Canada	24-Jun-97	24	System and Method for
288.CA	2208601	7700077					Automatic Registration
				European Patent			Activation
			AT&T Wireless	Convention	15-Jul-97	+	System and Method for
288.EPC	97112096.9						Automatic Registration
			·				Notification for Over-the-Air
			and all the second	· nanal.	15-Jul-97		Activation Actived for
288.JP	188842/1997		Al&i Wireless				Automatic Registration
							Notification for Over-the-Air
	0000	216890	AT&T Wireless	Mexico	76-Jur-20	13-Oct-03	Activation

19973157   AT&T Wireless   Norway   08	Docket	Application	Patent	John	Country	Application Date	Grant Date	Title
19973157   AT&T Wireless   Norway   08	Number	Number	Number	Owner				System and Method for
19973157   AT&T Wireless   Norway   08					<u>,                                     </u>			Automatic Registration Notification for Over-the-Air
19973157   19873157   19873157   19873157   19873157   19873157   19873157   19873157   19873157   19873157   19873157   198702492   19873157   198706867   1987317   198706867   198731				ATOT Mirelese		08-Jul-97		Activation
08/09676 96465 AT&I Wireless Taiwan 00		9973157		AIGI WIEGIOSS				System and Method for
08/679890   6188899   AT&T Wireless   Taiwan   00								Automatic Registration Notification for Over-the-Air
09/05676   96455   AT&T Wireless   United States   11				A TOT MINISTER	Taiwan	76-Jul-60	11-Dec-98	Activation
C1   09/702163   6282421   AT&T Wireless   United States   11		36109676	96465	Alai wireless	Laiwaii			System and Method for
O8/679890   6188999   AT&T Wireless   United States   13						-	·	Automatic Registration
C1   O9/702163   G282421   AT&T Wireless   United States   11	. <u>.                                   </u>							Notification for Over-the-Air
C1   09/702163   6282421   AT&T Wireless   United States   3		000010101	6199900	AT&T Wireless	United States	15-Jut-96	13-Feb-01	Activation
(1) 09/896481 AT&T Wireless United States 3 (1) 09/896481 AT&T Wireless United States 2 (2) 10/802492 AT&T Wireless United States 1 (2) 10/802492 AT&T Wireless Canada 2215821 2215821 AT&T Wireless Convention AT&T Wireless Convention Convention	1	08/8/300	0100000					System and Method for
(1) 09/896481 AT&T Wireless United States 2 (1) 09/896481 AT&T Wireless United States 2 (2) 10/802492 AT&T Wireless United States 1 (2) 9706687 AT&T Wireless Brazil C 2215821 2215821 AT&T Wireless Convention AT&T Wireless Convention Convention								Automatic Registration
(1) 09/896481 AT&T Wireless United States 2 (1) 09/896481 AT&T Wireless United States 2 (2) 10/802492 AT&T Wireless United States 1 (2) 10/802492 AT&T Wireless Brazil C 2215821 AT&T Wireless Canada  European Patent Gonvention AT&T Wireless Convention AT&T Wireless Convention AT&T Wireless Convention Convention			,			00 00	28-Aug-01	Activation
(1) 09/896481 AT&T Wireless United States 2 (2) 10/802492 AT&T Wireless United States 1 9706687 AT&T Wireless Brazil C 2215821 2215821 AT&T Wireless Canada 2215821 2215821 AT&T Wireless Convention AT&T Wireless Convention AT&T Wireless Convention Convention	_	09/702163	6282421	AT&T Wireless	United States	30-001-00	200	System and Method for
10/802492   AT&T Wireless   United States   1						•		Automatic Registration
09/896481         AT&T Wireless         United States         2           10/802492         AT&T Wireless         United States         1           9706687         AT&T Wireless         Brazil         C           2215821         AT&T Wireless         Canada         C           97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention         C			-					Notification for Over-the-Air
09/896481         At at whiteless         United States         1           10/802492         AT&T Wireless         United States         1           9706687         AT&T Wireless         Brazil         C           2215821         AT&T Wireless         Canada           97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention         Convention				4 TOT 18/12/20	1 Inited States	29-Jun-01		Activation
10/802492   AT&T Wireless   United States   1		09/896481		AIQI WIICIESS	200000000000000000000000000000000000000			System and Method for
10/802492   AT&T Wireless   United States   1				_				Automatic Registration
10/802492         AT&T Wireless         United States         1           9706687         AT&T Wireless         Brazil         C           2215821         AT&T Wireless         Canada         C           97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention         Convention								Notification for Over-the-Air
9706687  9706687  2215821  2215821  AT&T Wireless  Canada  European Patent  97117320.8  836340  AT&T Wireless  Convention  AT&T Wireless  Convention  Convention  AT&T Wireless  Convention  Convention				AT&T Wireless	United States	16-Mar-04		Activation
9706687         AT&T Wireless         Brazil         C           2215821         2215821         AT&T Wireless         Canada           C         97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention	288.US.C1(2)	10/802492		2000				A Method and Apparatus
9706687         AT&T Wireless         Brazil         C           2215821         2215821         AT&T Wireless         Canada           C         97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention			,					for Over-the-Air
9706687         AT&T Wireless         Brazil         C           2215821         2215821         AT&T Wireless         Canada           C         97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention         Convention			•					Programming of
9706687         AT&T Wireless         Brazil         C           2215821         2215821         AT&T Wireless         Canada           C         97117320.8         836340         AT&T Wireless         Convention           AT&T Wireless         Convention         Convention								l elecommunication
2215821 2215821 AT&T Wireless Canada  C 97117320.8 836340 AT&T Wireless Convention  European Patent C 97117320.8 R36340 AT&T Wireless Convention AT&T Wireless Convention	00 000	0706687		AT&T Wireless	Brazil	03-Oct-97		A Method and Apparatus
2215821 AT&T Wireless Canada  C 97117320.8 836340 AT&T Wireless Convention  European Patent C AT&T Wireless Convention AT&T Wireless Convention AT&T Wireless Convention	203.DI							for Over-the-Air
Canada   Canopean Patent   Canapean P								Programming of
C 97117320.8 836340 AT&T Wireless Canada  European Patent C 97117320.8 836340 AT&T Wireless Convention AT&T Wireless Convention AT&T Wireless Convention								Telecommunication
C 97117320.8 836340 AT&T Wireless Carlada  European Patent C 97117320.8 R36340 AT&T Wireless Convention AT&T Wireless Convention AT&T Wireless Convention Convention		-			وأمور	10-Sep-97	03-Jul-01	Services
97117320.8 836340 AT&T Wireless Convention European Patent AT&T Wireless Convention AT&T Wireless Convention	289.CA	2215821	2215821	AT&T Wireless	Canada	2000		A Method and Apparatus
97117320.8 836340 AT&T Wireless Convention European Patent AT&T Wireless Convention AT&T Wireless Convention						<del></del>		for Over-the-Air
97117320.8 836340 AT&T Wireless Convention European Patent AT&T Wireless Convention								Programming of Telecomminication
97117320.8 836340 AT&T Wireless Convention  European Patent AT&T Wireless Convention					European Patent	10 10 10	22. lim-04	Services
European Patent AT&T Wireless Convention	289.EPC	97117320.8	836340	AT&T Wireless	Convention	07-06-97		Method and Apparatus for
European Patent AT&T Wireless Convention								Updating Service
A WINDERSS					European Patent	16-Jan-98		Mobile Station
3023872.0	289.EPC.D1	3023872.6		Al&i Wireless	- Control			

				1		<del>-</del>	
4070	Annlication	Patent		Country	Application	Grant Date	Title
Nimber	Number	Number	Owner	Name	250		Mobile Communication
				European Patent			Receiving Intelligent
	٠.		AT&T Wireless	Convention	07-Oct-97		A Method and Apparatus
289.EPC.D2	3026871.8						for Over-the-Air
							Programming of Telecommunication
					08-Oct-97		Services
. di 682	275398/1997		AT&T Wireless	Japan			A Method and Apparatus
							Programming of Talecommunication
					08-Oct-97	07-Aug-02	Services
289.MX	977676	209518	AT&T Wireless	Mexico			A Method and Apparatus
							Programming of
							Telecommunication
			1	Noma	30-Sep-97		Services
ON 682	19974517		AT&T Wireless	INDINGS			A Method and Apparatus
							Programming of
							Telecommunication
				-	06-Oct-97	02-May-00	Services
AT Oac	86114585	110299	AT&T Wireless	lalwali			A Method and Apparatus
789.100	200						for Over-the-Ail
	-						Telecommunication
		_			90 100	19-Sep-00	Services
	00000	6122503	AT&T Wireless	United States	08-001-80		A Method and Apparatus
289.US	2001370						for Over-the-Air
							Programming of Telecommunication
					9	24-Sen-02	Services
		6466043	AT&T Wireless	United States	17-Dec-98		A Method and Apparatus
289.US.C1	09/213416	250055					for Over-the-Alr
	<del></del>						Programming of Tolocomminication
		<u>.</u>	·				Services
			AT&T Wireless	United States	08-Aug-02		Method and Apparatus for
289.US.C1(1)	10/214315						Testing Cellular Services In
						· ·	Second Location Remote
				:	47 004 07		From the First Location
206 BR	1410934		AT&T Wireless	Brazil	16-100-11		
			-			•	-

			<del>                                     </del>	1			TT	<del> </del>	· 1	1
Title	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Method and Apparatus for Testing Cellular Services in a First Location From a Second Location Remote From the First Location	Improved Generation of Encryption Key	Encryption Key Improved Generation of	Encryption Key Mobile Network
Grant Date	11-Sep-01			18-Dec-02		10-Sep-99	23-Feb-99		13-Sep-99	23-Apr-02
Application Date	20-Oct-97	16-Oct-97	20-Oct-97	17-Oct-97	13-Oct-97	15-0ct-97	21-Oct-96	29-Sep-97	03-Oct-97	03-Oct-96
Country	Canada	European Patent Convention	Japan	Mexico	Norway	Taiwan	United States	Japan	Taiwan	United States Taiwan
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless AT&T Wireless						
Patent Number	2218667			212232		103067	5875398		103186	5930362
Application Number		Ξ.	9-286313	978010	19974723	BE115142	08/734707	517588/1998	86114466	08/731105 86114471
Docket Number		ပ္		296.MX	CN 98C					297.US 298.TW

		tact-c		Country	Application	Grant	Title
Docket	Application	Nimber	Owner	Name	Date	Carc	Geographic Address
Number	Number	SCHOOL					Translation
							Geographic Address
			A TO T Mireless	United States	08-Oct-96	31-Aug-99	Registration of Mobile
298.US	1801591	5946615	Alai Wildias				Packet Data Terminals
		2257423	AT&T Wireless	Canada	06-May-97	23-Sep-03	Registration of Mobile
299.CA	2257423	27.1077			70-Wav-97		Packet Data Terminals After Disaster
200 CA D1	2404922		AT&T Wireless	Canada	in Carton		Registration of Mobile Packet Data Terminals
		· ·	AT&T Wireless	European Patent Convention	06-May-97		After Disaster Registration of Mobile
299.EPC	97922676.8						Packet Data Terminals
	000		AT&T Wireless	Japan	06-May-97		Registration of Mobile
299.JP	501287/1830				Oc May 97	06-May-97	After Disaster
200 MX	9810332	204997	AT&T Wireless	Mexico	October 5		Registration of Mobile Packet Data Terminals
CO. CO.				Taiwan	14-May-97	16-Aug-99	After Disaster Registration of Mobile
299.TW	86106439	102438	Al&i wireless				Packet Data Terminals
			AT&T Wireless	United States	10-Jun-96	05-Dec-00	After Disaster Registration of Mobile
299.US	1992978	6157633					Packet Data Terminals
		6771634	AT&T Wireless	United States	09-Apr-99	03-Aug-04	Method and Apparatus for
299.US.D1	09/289362				15-1an-98		Protocols Protocols Apparatus for
300.BR	9800328-3		AT&T Wireless	Drazii			Dynamic Negotiation of
40	2227086	2227086	AT&T Wireless	Canada	15-Jan-98	19-Mar-02	Method and Apparatus for
300.00	09750	221663	AT&T Wireless	Mexico	19-Jan-98	23-Jul-04	Protocols Method and Apparatus for
300.MX	00000					17-0ct-01	Protocols
300.TW	87100792	NI-134707	AT&T Wireless	Taiwan	20 201 20	26-Sep-00	Dynamic Protocol Negotiation System
300.US	-290885	6125122	AT&T Wireless	United States	71-Jan-97		
							• •

Docket	Application	Patent	Cwnor	Country	Application Date	Grant Date	Title
Number	Number	Number	51160				Method and Apparatus for
-		•		1 Inited Chates	08-410-00	03-Sep-02	Dynamic regonation of Protocols
300.US.C1	09/634573	6445716	AI&I WIREIESS	Ollifed States	20 8000		Method and Apparatus for
				00400 H 01-11	10 1.4 02		Dynamic Negotiation of Protocols
300.US.C1(1)	-328443		AT&T Wireless	United States	10-70I-0Z		A Method and Apparatus
							for Message Transmission
200	442600		AT&T Wireless	Brazil	24-Oct-97		Verification
301.BK	14,20002						A Method and Apparatus
			A TOT MAGAZIOGO	Capada	14-Oct-97	06-Feb-01	for Message Transmission Verification
301.CA	2218211	1128122	Alga Wildigs	Control			A Method and Apparatus
				European Patent	24.0ct-07		for Message Transmission Verification
301.EPC	97118527.7		AT&T Wireless	CONVENIENT	76-200-57		A Method and Apparatus
					7		for Message Transmission
301.JP	9-290726		AT&T Wireless	Japan	/s-100-67		A Method and Apparatus
							for Message Transmission
301.MX	978066	206521	AT&T Wireless	Mexico	20-Oct-97	08-Feb-02	Verification A Method and Apparatus
			•	·			for Message Transmission
014 100	10074771		AT&T Wireless	Norway	15-Oct-97		Verification
301.NO	122/4/12				,		A Method and Apparatus
		700	AT&T Wireless	Taiwan	20-Oct-97	09-Mar-00	Verification
301.TW	86115452	108524	Ala Wilding				A Method and Apparatus
			acclesiate Tota	United States	25-Oct-96	17-Aug-99	Verification
301.US	08/740277	5940740	Alai Wileiess	Source Country			A Method and Apparatus
			200102041 TOTA	1 Inited States	18-Dec-98	17-Apr-01	for Message Transmission Verification
301.US.C1	09/215557	6219542	AIGI WHEIGSS				Method and Apparatus for
				:			Message Transmission
301.US.C1(1)	09/535340		AT&T Wireless	United States	Z4-Mar-00		Method for Categorization
							of Multiple Providers in a
		•					Wireless Communications
302 BR	9710456-6		AT&T Wireless	Brazil	24-Jun-97		Service Environment
10:100				:			of Multiple Providers in a
							Wireless Communications
000	2250238	2250238	AT&T Wireless	Canada	24-Jun-97	25-Mar-03	Service Environment
302.CA	7433430	77777			i		

							-
Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Method for Categorization of Multiple Providers in a
				European Patent	70,01		Wireless Communications Service Environment
ם בסכ	97932289.8		AT&T Wireless	Convention	Z4-Jun-97		Method for Categorization
02.Er							Wireless Communications
			. :		24-Jun-97		Service Environment
302.JP	504270/1998		AT&T Wireless	Japan			Method for Categorization   of Multiple Providers in a
	:						Wireless Communications Service Environment
302.MX	990222		AT&T Wireless	Mexico	24-Jun-97		Method for Categorization
						11.Mar.09	Wireless Communications Service Environment
, Act. 000	86108822	97738	AT&T Wireless	Taiwan	24-Jun-97		Method for Categorization
302.1W	27000100						of Multiple Providers in a Wireless Communications
				Soft Chatter	28-11m-96	27-Feb-01	Service Environment
302 115	08/672908	6195532	AT&T Wireless	United States	20 1100.07		Method for Categorization
		ļ					Wireless Communications
				Sofoto Fig. 1	14. km-99	23-Apr-02	Service Environment
302 US C1	1066388	6377787	AT&T Wireless	United States			Method for Categorization
							Wireless Communications
				1 Laited Chates	19-Mar-02		Service Environment
302.US.C2	10/099992		AT&T Wireless	Office States			Method for Categorization
					•		Wireless Communications
				1 tottod States	27-Sep-04		Service Environment
302.US.C3	mailed		AT&T Wireless	Ollifed States			Method of Intelligent   Roaming Using Network
	<del></del>			epour C	12-Jun-98	30-Mar-04	Information
303.CA	2294432	2294432	AT&T Wireless	Callana			Method of Intelligent Roaming Using Network
•					42, hin-98		Information
303 CA D1	2444185		AT&T Wireless	Canada	00-1100-21		Method of Intelligent
0.000				European Patent	t   12hm-98		Roaming Using Network Information
303.EPC	98929031.7		AT&T Wireless	CONGUE		L	Method of Intelligent Roaming Using Network
			AT&T Wireless	Mexico	12-Jun-98	_	Information
303.MX	2811892					٠	

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
303.TW	87110178	110131	AT&T Wireless	Taiwan	24-Jun-98	26-Apr-00	Method of Intelligent Roaming Using Network Information
303.US	08/883111	6223042	AT&T Wireless	United States	26-Jun-97	24-Apr-01	Method of Intelligent Roaming Using Network Information
306.BR	9800525-1		AT&T Wireless	Brazil	30-Jan-98		Method and Apparatus for Serving Cell Code Assignment
306.CA	2227138	2227138	AT&T Wireless	Canada	15-Jan-98	16-Sep-03	Method and Apparatus for Serving Cell Code Assignment
306.MX	980722		AT&T Wireless	Mexico	26-Jan-98		Method and Apparatus for Serving Cell Code Assignment
306.TW	87100967	111208	AT&T Wireless	Taiwan	23-Mar-98	29-May-00	Method and Apparatus for Serving Cell Code Assignment
306.US	1472506	6144851	AT&T Wireless	United States	31-Jan-97	07-Nov-00	Method and Apparatus for Serving Cell Code Assignment
307.BR	1892355	·	AT&T Wireless	Brazil	18-Dec-97		Method of Mutual Authentication for Secure Wireless Service Provision
307.CA	2221665	2221665	AT&T Wireless	Canada	20-Nov-97	07-Jan-03	Method of Mutual Authentication for Secure Wireless Service Provision
307.MX	9710347	193809	AT&T Wireless	Mexico	18-Dec-97	22-Oct-99	Method of Mutual Authentication for Secure Wireless Service Provision
307.TW	86119522	110272	AT&T Wireless	Taiwan	22-Dec-97	01-May-00	Method of Mutual Authentication for Secure Wireless Service Provision
307.US	08/777341	5875394	AT&T Wireless	United States	27-Dec-96	23-Feb-99	Method of Mutual Authentication for Secure Wireless Service Provision
308.BR	9706413-0		AT&T Wireless	Brazil	18-Dec-97		Method for Controlling Channel Re-Selection
308.CA	2221820	2221820	AT&T Wireless	Canada	20-Nov-97	30-Jul-02	Method for Controlling Channel Re-Selection
308.MX	9710341	199915	AT&T Wireless	Mexico	18-Dec-97	30-Nov-00	Method for Controlling Channel Re-Selection
308.TW	86119184	125235	AT&T Wireless	Taiwan	18-Dec-97	08-May-01	Method for Controlling Channel Re-Selection

Docket         Application         Patient         Owner         Country         Application         Filte         Title           Number         Number         Number         Number         Date								
Number   Number   Number   Owner   Name   Uate	Dockot	Annlication	Patent		Country	Application	Grant	Title
Columbia	DOCAGE	Mumbor	Number	Owner	Name	Date	Date	Method for Controlling
Columbia	Number	Name				24-Dec-96	30-Nov-99	Channel Re-Selection
1975936   6501951   AT&T Wireless   United States   07-May-99   31-Dec-02   Order of the control of the contr	SD.80	08/772829	5995834	AT&T Wireless	T			Method for Controlling
10,206963	10.01	09/306760	6501951	AT&T Wireless	1	07-May-99	31-Dec-02	Method for Controlling
10/206963	10.00.01	20,000,00						Channel Re-Selection
10/206963   AT&T Wireless   United States   30-Jul-02   O								From a Selected Control
10/206963   AT&T Wireless   United States   30-Jul-02   Q								Channel to an Alternative
10/206963				A TOT IAlizatore	1 Inited States	30-Jul-02		Control Channel
1892840   AT&I Wireless   United States   20-Aug-04   C	08.US.C1(1)	10/206963		Al & I Wildiess				Method for Controlling
mailed				ATOT Mirelace	United States	20-Aug-04		Channel Re-Selection
1892840 AT&T Wireless Brazil 18-Dec-97 S O O O O O O O O O O O O O O O O O O	108.US.C1(2)	mailed		AIG WIEGSS				Method and Apparatus for
1892840   AT&T Wireless   Brazil   18-Dec-87   S   Norway								Alerting a Station in One
1892840   AT&T Wireless   Brazil   18-Dec-97   S		٠.						Network of a Requested
1892840   AT&T Wireless   Brazil   18-Dec-97   Statement   18-Dec-97   Statement   State								Communication From a
1892840  1892840  2221854  AT&T Wireless  Canada  20-Nov-97  18-Nov-03  Convention  20-Nov-97  AT&T Wireless  Japan  19-Dec-97  AT&T Wireless  Wexico  18-Dec-97  AT&T Wireless  Mexico  18-Dec-97  AT&T Wireless  Norway  17-Dec-97  AT&T Wireless  Norway  17-Dec-97  AT&T Wireless  Norway  17-Dec-97				AT&T Wireless	Brazil	18-Dec-97		Second Network
2221854 AT&T Wireless Canada 20-Nov-97 18-Nov-03 S S AT&T Wireless Canada 20-Nov-97 18-Nov-03 S S AT&T Wireless Convention 20-Nov-97 S S AT&T Wireless Japan 19-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 17-Dec-9	312.BR	1892840	ŀ	2000				Method and Apparatus for
2221854 2221854 AT&T Wireless Canada 20-Nov-97 18-Nov-03 6 9 97309352.9 AT&T Wireless Convention 20-Nov-97 19-Dec-97 07-Nov-03 9710338 217407 AT&T Wireless Norway 17-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 07-Nov-03							•	Alerting a station in One
2221854 2221854 AT&T Wireless Canada 20-Nov-97 18-Nov-03 S AT&T Wireless Convention 20-Nov-97 18-Nov-03 S AT&T Wireless Japan 19-Dec-97 19-Dec-97 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 17-Nov-03 AT&T Wireless Norway 17-Dec-97 17-Dec-								Network of a Nequested
2221854 2221854 AT&T Wireless Canada 20-Nov-97 18-Nov-03 European Patent Convention 20-Nov-97 18-Nov-03 European Patent AT&T Wireless Japan 19-Dec-97 67-Nov-03 AT&T Wireless Norway 17-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 17-							:	Common Month
2221834 2221834 221034 Chromatic convention 20-Nov-97 Convention 20-Nov-97 Convention 20-Nov-97 Convention 19-Dec-97 AT&T Wireless Japan 19-Dec-97 O7-Nov-03 AT&T Wireless Norway 17-Dec-97 O7-Nov-03 AT&T Wireless Norway AT&			7007000	AT&T Wireless	Canada	20-Nov-97	18-Nov-03	Second Network
97309352.9 AT&T Wireless Convention 20-Nov-97 Convention 20-Nov-97 Sp. 350412 AT&T Wireless Japan 19-Dec-97 GT-Nov-03 AT&T Wireless Mexico 18-Dec-97 GT-Nov-03 AT&T Wireless Norway 17-Dec-97 17-Dec-97 GT-Nov-03 AT&T Wireless Norway 17-Dec-97 GT-Nov-03 AT&T Wireless Norway 17-Dec-97 GT-Nov-03 AT&T Wireless Norway GT-Nov-03 AT&T Wireless Norw	312.CA	2221854	4C01777					Method and Apparates in
97309352.9 AT&T Wireless Convention 20-Nov-97 Convention 20-Nov-97 Convention 20-Nov-97 Convention 20-Nov-97 AT&T Wireless Japan 19-Dec-97 O7-Nov-03 AT&T Wireless Mexico 18-Dec-97 O7-Nov-03 AT&T Wireless Norway 17-Dec-97 17-Dec-97								Alerting a Station in One
97309352.9 AT&T Wireless Convention 20-Nov-97 Convention 20-Nov-97 Convention 20-Nov-97 AT&T Wireless Japan 19-Dec-97 G7-Nov-03 AT&T Wireless Norway 17-Dec-97 I7-Dec-97 I7-Dec-97 I7-Dec-97 I7-Dec-97 I7-Dec-97 I7-Dec-97 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	•							Network of a Neddestee
9-350412 AT&T Wireless Convention 20-Nov-97 AT&T Wireless Japan 19-Dec-97 O7-Nov-03 AT&T Wireless Norway 17-Dec-97 O7-Nov-03 AT&T Wireless Norway 17-Dec-97					European Patent		-	Communication Floring
97309352.9 47&1 Wireless Japan 19-Dec-97 9-350412 47&1 Wireless Mexico 18-Dec-97 19975936 47&1 Wireless Norway 17-Dec-97				ATOT Mireless	Convention	20-Nov-97		Second retwork
9-350412 AT&T Wireless Japan 19-Dec-97 O7-Nov-03 arguments and the second secon	312.EPC	97309352.9		Alai Wileiess				Method and Apparatus for
9-350412 AT&T Wireless Japan 19-Dec-97 (17-Dec-97 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 (17-Dec-97 AT&T Wireless Norway No			-			•		Alerting a Station in Orie
9-350412 AT&T Wireless Japan 19-Dec-97 (17-Dec-97 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 AT&T Wireless Norway 17-Dec-97 (17-Dec-97 AT&T Wireless Norway AT&T Wireless Norway (17-Dec-97 AT&T Wireless Norway (17-Dec-9								Network of a Requested
9-350412 AT&T Wireless Japan 19-Dec-97 (17-Dec-97) 4 AT&T Wireless Mexico 18-Dec-97 (17-Dec-97) 5 19975936 AT&T Wireless Norway 17-Dec-97					<u>.</u>			Communication right a
9-350412 Atat Wireless Cape. 9710338 217407 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 19975936 AT&T Wireless Norway 17-Dec-97				A TOT Mission	Janan.	19-Dec-97		Second Network
9710338 217407 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 (19975936 AT&T Wireless Norway 17-Dec-97 (17-Dec-97 (1	312.JP	9-350412		Alai Wildias				Method and Apparatus for
9710338 217407 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 19975936 AT&T Wireless Norway 17-Dec-97								Alerting a Station in One
9710338 217407 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 19975936 AT&T Wireless Norway 17-Dec-97								Nework of a Requested
9710338 217407 AT&T Wireless Mexico 18-Dec-97 07-Nov-03 19975936 AT&T Wireless Norway 17-Dec-97								Communication From a
9710338 217407 AT&I Wireless WeANDO 19975936 AT&I Wireless Norway 17-Dec-97		• .			Movico	18-Dec-97	07-Nov-03	Second Network
19975936 AT&T Wireless Norway 17-Dec-97	312 MX	9710338	217407	AT&T Wireless	MEXICO			Method and Apparatus for
19975936 AT&T Wireless Norway 17-Dec-97					-			Alerting a Station in One
19975936 AT&T Wireless Norway 17-Dec-97				_				Network of a Requested
19975936 AT&T Wireless Norway 17-Dec-97								Communication From a
19975936 AIGH WITEHESS TOTAL TOTAL WITEHESS			-	0001-001-00-0	Noway	17-Dec-97		Second Network
	312.NO	19975936		Al&i Wireless	Campa I			

								ſ
Docket	Application	Patent		Country	Application	Grant	i	•
Nation	Number	Number	Owner	Name	Date	Date	Title	
			-				Method and Apparatus for	_ ত্
		2					Alerting a Station in One	· ·
	_						Network of a Requested	<u>-</u>
31. 010							Communication From a	
312.1W	8611951/	104929	AT&T Wireless	laiwan	22-Dec-97	04-Dec-99	Second Network	
		٠		_			Method and Apparatus for	ō
	-	-					Alerting a Station in One	
					•		Network of a Requested	
0.00							Communication From a	<u>.                                    </u>
312.US	08/777336	6230009	AT&T Wireless	United States	27-Dec-96	08-May-01	Second Network	
		-					Method and Apparatus for	٥٠
							Alerting a Station in One	·
							Network of a Requested	
312115 C1	00/740184	6450007	ATOT 14/12-12-02	Cotobo Potici	. 00	0.0	Communication From a	
2000	10104/60	0433037	Alal Wieless	Ollifed States	10-Dec-00	01-Oct-02	Second Network	1
				_			Method and Apparatus for	
							Alerting a Station in One	•
							Network of a Requested	
242 110 0445							Communication From a	-
312.03.01(1)	10/241432		AT&T Wireless	United States	12-Sep-02		Second Network	
•								-
							Method of Wireless	
313.BR	1893450		AT&T Wireless	Brazil	18-Dec-97		Retrieval of Information	
							Method of Wireless	
313.CA	2221666		AT&T Wireless	Canada	20-Nov-97		Retrieval of Information	
				European Patent			Method of Wireless	
313.EPC	97121958.9		AT&T Wireless	Convention	12-Dec-97		Retrieval of Information	
č	000710						Method of Wireless	
313.47	9-331020		AI&I Wireless	Japan	19-Dec-97		Retrieval of Information	7
313.MX	9710240		AT&T Wireless	Mexico	17-Dec-97		Method of Wireless Retrieval of Information	<del></del>
							Method of Wireless	Γ
313.NO	19975935		AT&T Wireless	Norway	17-Dec-97		Retrieval of Information	
:		•					Method of Wireless	
313.TW	86119180	105649	AT&T Wireless	Taiwan	18-Dec-97	17-Dec-99	Retrieval of Information	1
				Ċ			Method of Wireless	
313.03	08/11/983	6493430	A L&T Wireless	United States	24-Dec-96	10-Dec-02	Retrieval of Information	Ţ
343 US B4	10/41000k		ATET Missions	I Inited States	00 113 03		Method of Wireless	
1,0000	00001101		Alai Widida	CIIIICO CIGIGO	on-line on		Medieval of Information	T
						,	Method and Apparatus for Data Network Call	
318.BR	1767500		AT&T Wireless	Brazil	03-Dec-97		Processing	
								]

							_	
				Country	Application	Grant	Ti+lo	•
Docket	Application	Patent	Owner	Name	Date	Date	Method and Apparatus for	
Number	Number	Number	-		-		Data Network Call	
		7070666	AT&T Wireless	Canada	10-Nov-97	01-Jan-02	Processing Method and Apparatus for	
318.CA	2220707	777777		Curonean Patent			Data Network Call	
			cooler) at Feb.		12-Nov-97		Processing	
318.EPC	97309093.9		AT&I WIREIESS				Data Network Call	
					05-Dec-97		Processing	
318.JP	2306751		AT&T Wireless	Japan			Method and Apparatus for	
					75-Dec-97	26-Sep-01	Processing	
318 MX	979392	204379	AT&T Wireless	Mexico			Method and Apparatus for	
					70 000		Processing	
318.NO	19975612		AT&T Wireless	Norway	04-060-97		Method and Apparatus for	
				\$ 0.000 P	03-Dec-97	04-Mar-02	Processing	
WT 815	86118162	143991	AT&T Wireless	laiwan			Method and Apparatus for	
				20400 F 11.	09-0-00	12-Sep-00	Processing	
318115	08/762550	6118778	AT&T Wireless	United States			Method and Apparatus for	
2000					00 NON 00	17-Aug-04	Processing	
	00/461401	6778527	AT&T Wireless	United States	26-404-02		A Method for Time-	
318.US.C1	09/421401						Stamping a Message	
		•					Based on a Recipient	
			ATOT Wireless	Brazil	27-May-98		A Mathod for Time-	
332 BR	9801486-2		AIGI WIICICSS				Champing a Massage	
							Based on a Recipient	
				chose	27-Apr-98		Location	_
337 C&	2235979		AT&T Wireless	Callana			Method for Time-Stamping	
332.00				European Patent			Recipient Location	_
			AT&T Wireless	Convention	22-May-98		A Method for Time-	
332.EPC	98304082.5						Stamping a Message	·
							Based on a Recipient	
			•		27-Mav-98		Location	1
332.JP	10-145288		AT&T Wireless	Japan			Method for Lime-Startiphing	
				Mexico	28-May-98	04-Mar-04	Recipient Location	$\neg$
332.MX	984246	219273	AI&I WIREESS					•

19982385   316993   AT&T Wireless   Norway   28-May-98   19-Jul.O4	Docket	Application	Patent	Count	Country	Application Date	Grant	Title
19862385   316993   AT&T Wireless		Maliber						A Method for Time- Stamping a Message
87108312         111946         AT&T Wireless         Taiwan         28-May-98         13-Juin-00           C1         09825804         6239719         AT&T Wireless         United States         03-Jun-97         29-May-01           C1         09825804         AT&T Wireless         United States         05-Apr-01         29-May-01           C2         09825804         AT&T Wireless         United States         05-Apr-01         29-May-01           2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           2236233         AT&T Wireless         Germany         22-May-98         13-Aug-03           98304081,7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081,7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081,7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           15-Aug-03         45-Aug-03         47-Aug-03         47-Aug-03         47-Aug-03         47-Aug-03           15-Aug-08         15-Aug-03         13-Aug-03         13-Aug-03         13-Aug-03	332.NO	19982385	316993	AT&T Wireless	Norway	26-May-98	19-Jul-04	Location
87108312         115946         AT&T Wireless         Talwan         28-May-96         13-Juin-00           C1         09/825894         6239719         AT&T Wireless         United States         03-Jun-97         29-May-01           C1         09/825894         AT&T Wireless         United States         05-Apr-01         29-May-01           C2         2236231         AT&T Wireless         Canada         30-Apr-96         30-Cct-01           S8304081.7         68817086.5         AT&T Wireless         Germany         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         Finland         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         France         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         Great Britain         22-May-96         13-Aug-03           S8304081.7         883313         AT&T Wireless         Great Britain         22-May-96         13-Aug-03								Method for Time-Stamping a Message Based on a
CC1         09/825894         AT&T Wireless         United States         03-Jun-97         29-May-01           CC1         09/825894         AT&T Wireless         United States         05-Apr-01         28-May-96           9806495-9         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           2236231         AT&T Wireless         Canada         30-Apr-98         13-Aug-03           98304081.7         69817066.5         AT&T Wireless         Convention         22-May-96         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-96         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-96         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-96         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-96         13-Aug-03           14408-03         98304081.7         883313         AT&T Wireless         Great Britain         22-May-96         13-Aug-03           14408-03         14408-06         AT&T Wireless         Great Britain         22-May-96         13-Aug-03	332.TW	87108312	111946	AT&T Wireless	Taiwan	28-May-98	13-Jun-00	Recipient Location
C1 09/825894 AT&T Wireless United States 03-Jun-97 29-May-01 AT&T Wireless United States 05-Apr-01 2236231 AT&T Wireless Brazil 28-May-98 30-Oct-01 2236231 AT&T Wireless Canada 30-Apr-98 30-Oct-01 European Patent 22-May-98 13-Aug-03 AT&T Wireless Convention 22-May-98 13-Aug-03 AT&T Wireless France 22-May-98 13-Aug-03 AT&T Wireless France 22-May-98 13-Aug-03 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Japan 03-Jun-88 13-Aug-03								Method for Time-Stamping
C1         09/825894         AT&T Wireless         United States         05-Apr-01           9906495-9         AT&T Wireless         Brazil         28-May-98           2236231         2236231         AT&T Wireless         Canada         30-Apr-86         30-Cq-01           98304061.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           C236231         AT&T Wireless         Convention         22-May-98         13-Aug-03           C3904061.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304061.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304061.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304061.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           15409.03         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           155004.03         AT&T Wireless         Great Britain         22-May-98         13-Aug-03	332.US	08/868401	6239719	AT&T Wireless	United States	03-Jun-97	29-May-01	a Message Based on a Recipient Location
C1         09/825894         AT&T Wireless         United States         05-Apr-01           9806495-9         AT&T Wireless         Brazil         22-May-98         30-Oct-01           2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           98304081.7         69617086.5         AT&T Wireless         Convention         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           1540808         AT&T Wireless         Great Britain         22-May-98         13-Aug-03								Method for Time-Stamping
9806495-9  AT&T Wireless Brazil  2236231  AT&T Wireless Canada  30-Apr-98 30-Oct-01 22-May-98 30-Oct-01 22-May-98 30-Oct-01 22-May-98 30-Oct-01 22-May-98 30-Oct-01 30-Aug-03 30-Aug-03 313-Aug-03	332.US.C1	09/825894		AT&T Wireless	United States	05-Apr-01		a message based on a Recipient Location
98304495-9         AT&T Wireless         Brazil         28-May-98           2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           5         98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           15408.03         AT&T Wireless         France         22-May-98         13-Aug-03           15408.17         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           15408.17         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03								Method and System for
9806495-9         AT&T Wireless         Brazil         28-May-98           2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           5         98304081.7         88331.3         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         88331.3         AT&T Wireless         Finland         22-May-96         13-Aug-03           98304081.7         88331.3         AT&T Wireless         France         22-May-96         13-Aug-03           15-Aug-03         AT&T Wireless         Great Britain         22-May-96         13-Aug-03           15-Aug-03         AT&T Wireless         Great Britain         22-May-96         13-Aug-03								Providing Data
2236231	333 BR	9806495-9		AT&T Wireless	Brazil	28-May-98		Mobile Station
2236231 2236231 AT&T Wireless Canada 30-Apr-98 30-Oct-01 98304081.7 69817086.5 AT&T Wireless Germany 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Finland 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03								Method and System for
2236231         AT&T Wireless         Canada         30-Apr-98         30-Oct-01           98304081.7         69817086.5         AT&T Wireless         Germany         22-May-98         13-Aug-03           5         98304081.7         883313         AT&T Wireless         Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           15409.03         44&T Wireless         Great Britain         22-May-98         13-Aug-03								Providing Data
98304081.7 69817086.5 AT&T Wireless Germany 22-May-98 13-Aug-03 European Patent Convention 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Finland 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03	333.CA	2236231	2236231	AT&T Wireless	Canada	30-Apr-98	30-Oct-01	Mobile Station
98304081.7 69817086.5 AT&T Wireless Germany 22-May-98 13-Aug-03 European Patent Convention 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britaln 22-May-98 13-Aug-03								Method and System for
98304081.7 69817086.5 AT&T Wireless Germany 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Finland 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 13-Aug-03 Japan 03-Jun-98								Providing Data
98304081.7 883313 AT&T Wireless Convention 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083199 AT&T Wireless Japan 03-Jun-98	U 000	7 7007070	2 2007700	AT&T Wireless	Germany	22-Mav-98	13-Aug-03	Mobile Station
European Patent         European Patent         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/199R         AT&T Wireless         Japan         03-Jun-98         13-Aug-03	333.DE	30304001.7	03011000.3	SepipiiA IBCC	(1)	20 / 20	b	Method and System for
Convention         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083199R         AT&T Wireless         Japan         03-Jun-98         13-Aug-03				•	i i			Providing Data
98304081.7 883313 AT&T Wireless Finland 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154081.7 883313 AT&T Wireless Japan 03-Jun-98	000	1 1000000		AT&T Wireless	Convention	22-Mav-98	13-Aug-03	Communication With a Mobile Station
98304081.7 883313 AT&T Wireless Finland 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98	333.67.0	30304001.7	000010	September 1910				Method and System for
98304081.7         883313         AT&T Wireless         Finland         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Great Britain         22-May-98         13-Aug-03								Providing Data
98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98		1 1000000	0000010	AT&T Windless	Finland	22-Mav-98	13-Aug-03	Mobile Station
98304081.7 883313 AT&T Wireless France 22-May-98 13-Aug-03 98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98	333.FI	30304001.1	0000	200				Method and System for
98304081.7         883313         AT&T Wireless         France         22-May-98         13-Aug-03           98304081.7         883313         AT&T Wireless         Great Britain         22-May-98         13-Aug-03           154083/1998         AT&T Wireless         Japan         03-Jun-98				-				Providing Data
98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03	. ;	1		ATOT 180-00	000	22-May-08	13-41:0-03	Mobile Station
98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98	333.FK	98304081./	883313	AIG! WIEEESS	5	25-may 50	R	Method and System for
98304081.7 883313 AT&T Wireless Great Britain 22-May-98 13-Aug-03 154083/1998 AT&T Wireless Japan 03-Jun-98			· .					Providing Data
98304081.7 883313 A18.1 Wireless Great Dingit 22-mg/ 32 Co. 2 mg/ 32 Co. 3 mg/ 32 C				TOTAL MINISTRA		22_Mav-98	13-Aug-03	Communication With a Mobile Station
154083/1998 AT&T Wireless Japan 03-Jun-98	333.GB	98304081./	883313	Algi Wileitas		25 11101 20	R	Method and System for
154083/1998 AT&T Wireless Japan 03-Jun-98				٠			···········	Providing Data
0001 0000001	333.JP	154083/1998		AT&T Wireless	Japan	03-Jun-98		Communication With a

Docket         Application         Patent         Owner         Number         Application         Title           Number         Number         Number         Owner         Number         On-Jan-99         Modified Silation           3.3.W         994353         212.466         ATST Wireless         Modified Silation         Challenge Silation (Declaration Number System for Challenge)         Challenge Silation (Declaration Number System for Challenge)         Challenge Silation (Declaration Number System for Challenge)           33.5E         98204081         ATST Wireless         ATST Wireless         Talvan         22-May-98         Talval-03         Modified Silation on Challenge Decision           33.5E         98204081         ATST Wireless         Talval-09         ATST Wireless         Talval-09         Talval-03         Modified Silation on Challenge Decision           33.5LS         98204081         ATST Wireless         Talval-09         Talval-03         Talval-03         Modified Silation on Challenge Decision Decis								
Number   Owner   Name   Date   Date	- 1	Application	Patent		Country	Application	Grant	Title
State		Number	Number	Owner	Name	Case		Mobile Station
212436	1							
Strange		·						Method and System for Providing Data
State								Communication With a
212436   AT&I Wireless   Mexico   United States   12-May-98   13-Mug-03   Max   AT&I Wireless   Taiwan   22-May-98   13-Mug-03   Max   AT&I Wireless   Taiwan   22-May-98   13-Mug-03   Max   AT&I Wireless   Taiwan   28-May-98   17-Apr-01   Max   AT&I Wireless   United States   03-Jun-97   21-May-02   Nax   AT&I Wireless   United States   12-Apr-02   Nax   AT&I Wireless   AT&I Wireless   Convention   13-Mar-98   30-Oct-01   AT&I Wireless   AT&I Wireless   Convention   13-Mar-98   30-Oct-01   AT&I Wireless   AT&I Wireless					_	04-110-08	08-Jan-03	Mobile Station
Proceedings   Procedure   Pr		84353	212436	AT&T Wireless		01-3011-30		Method and System for
AT&T Wireless   Norway   26-May-98   Norway		2020				•	•	Providing Data
AT&I Wireless   Norway   26-May-98   Norway							٠	Communication With a
Table   Tabl				and all the party	Noway	26-May-98		Mobile Station
B83313   AT&I Wireless   Sweden   22-May-98   13-Aug-03   MM   MM     123686   AT&I Wireless   Taiwan   28-May-98   17-Apr-01   MM     6393014   AT&I Wireless   United States   12-Apr-02   NM     AT&I Wireless   United States   12-Apr-02   NM     AT&I Wireless   Canada   12-Mar-98   30-Oct-01   SM     Convention   18-Mar-98   AT&I Wireless   Japan   O9-Apr-98     AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   AT&I Wireless   Japan   O9-Apr-98   AT&I Wireless   AT&I Wirel	•	9982384		A I & I WII EI EI EI				Method and System to
883313         AT&T Wireless         Sweden         22-May-98         13-Aug-03         MM           123686         AT&T Wireless         Taiwan         28-May-98         17-Apr-01         MM           6393014         AT&T Wireless         United States         03-Jun-97         21-May-02         MM           AT&T Wireless         United States         10-Sep-04         MM           AT&T Wireless         Brazil         31-Mar-98         Brazil           AT&T Wireless         Canada         12-Mar-98         Brazil           B         AT&T Wireless         Canada         12-Mar-98         Brazil           B         AT&T Wireless         Convention         18-Mar-98         Brazil           B         AT&T Wireless         Convention         18-Mar-98         Brazil           B         AT&T Wireless         Convention         09-Apr-98         Brazil		ı						Comminication With a
BB3313					,	00	13-010-03	Mobile Station
123686		. 1001000	882213	AT&T Wireless	Sweden	22-May-96	SO ROU-CI	Method and System for
12366 AT&T Wireless Taiwan 28-May-98 17-Apr-01 M  0 6393014 AT&T Wireless United States 03-Jun-97 21-May-02 M  18 AT&T Wireless United States 12-Apr-02 M  AT&T Wireless United States 10-Sep-04 C C C C C C C C C C C C C C C C C C C	- 1	98304081.7	212200					Providing Data
123666 AT&T Wireless Taiwan 28-May-96 17-Apr-01 M 0 6393014 AT&T Wireless United States 03-Jun-97 21-May-02 M 18 AT&T Wireless United States 12-Apr-02 M AT&T Wireless United States 10-Sep-04 Canada 12-Mar-98 European Patent 18-Mar-98 Spo-Oct-01 15-Mar-98 AT&T Wireless Convention 18-Mar-98 European Patent 18-Mar-98 AT&T Wireless Japan 09-Apr-98 AT&T Wireless Japan 09-Apr-98 AT&T Wireless Japan 09-Apr-98 AT&T Wireless Japan 09-Apr-98								Communication With a
123686 AT&T Wireless I awan 20-May-02 M		•			,	20 May-08	17-Apr-01	Mobile Station
Oct-Original		87108311	123686	AT&T Wireless	Iaiwan	20-Way-30		Method and System for
Comments   Comments		1000110						Providing Data
6393014   AT&T Wireless   United States   03-Jun-97   21-May-02   N								Communication With a
6393014					1 Library Charles	03. lin-97	21-May-02	Mobile Station
AT&I Wireless United States 12-Apr-02  AT&I Wireless United States 10-Sep-04  AT&I Wireless Brazil 31-Mar-98  AT&I Wireless Canada 12-Mar-98  European Patent H-Mar-98  AT&I Wireless Convention 09-Apr-98  AT&I Wireless Japan 09-Apr-98  AT&I Wireless Mexico 02-Apr-98		08/868350	6393014	AT&T Wireless	Olilled Olares			Method and System for
48         AT&T Wireless         United States         12-Apr-02         No.	+-							Providing Data
48         AT&T Wireless         United States         12-Apr-02         N           11-5         AT&T Wireless         United States         10-Sep-04         Convention           11-5         AT&T Wireless         Brazil         31-Mar-98         Convention           31-6         AT&T Wireless         Convention         12-Mar-98         Convention           11-6         AT&T Wireless         Convention         18-Mar-98         Convention           11-6         AT&T Wireless         Japan         09-Apr-98         AT&T Wireless           8         AT&T Wireless         Mexico         02-Apr-98         ATA-98		•						Communication With a
448         AT&T Wireless         United States         10-Sep-04         N           11-5         AT&T Wireless         Brazil         31-Mar-98         Brazil         51-Mar-98         Brazil	_				United States	12-Apr-02		Mobile Station
11-5         AT&T Wireless         United States         10-Sep-04         N           11-5         AT&T Wireless         Brazil         31-Mar-98         8           38         2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           11.6         AT&T Wireless         Convention         18-Mar-98         18-Mar-98           11998         AT&T Wireless         Japan         09-Apr-98           8         AT&T Wireless         Mexico         02-Apr-98	_	10/120548		AT&T Wireless	חווופח סומוכא			Method and System for
11-5         AT&T Wireless         United States         10-Sep-04         N           11-5         AT&T Wireless         Brazil         31-Mar-98         B           38         2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           11.6         AT&T Wireless         Convention         18-Mar-98         30-Oct-01           11998         AT&T Wireless         Japan         09-Apr-98           8         AT&T Wireless         Mexico         02-Apr-98	+-			-			-	Providing Data
11-5         AT&T Wireless         United States         10-Sep-04         N           11-5         AT&T Wireless         Brazil         31-Mar-98         B           38         2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           11.6         AT&T Wireless         Convention         18-Mar-98         AT&T Wireless           11998         AT&T Wireless         Japan         09-Apr-98           8         AT&T Wireless         Mexico         02-Apr-98								Communication With a
11-5         AT&T Wireless         Brazil         31-Mar-98         P           38         2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           31.6         AT&T Wireless         Convention         18-Mar-98         30-Oct-01           41.6         AT&T Wireless         Convention         18-Mar-98           AT&T Wireless         Japan         09-Apr-98           AT&T Wireless         Mexico         02-Apr-98	_			Secionist Total	United States	10-Sep-04		Mobile Station
5         AT&T Wireless         Brazil         31-Mar-98         F         F           2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01         1           I.6         AT&T Wireless         Convention         18-Mar-98         AT&T Wireless         Japan         09-Apr-98           98         AT&T Wireless         Japan         02-Apr-98         AT&T Wireless         Mexico         02-Apr-98		mailed		AIGI WIICICSS				System and Method for
AT&T Wireless	_					31-Mar-98		Processing Dropped Calls
2231938         AT&T Wireless         Canada         12-Mar-98         30-Oct-01           1.6         AT&T Wireless         Convention         18-Mar-98           98         AT&T Wireless         Japan         09-Apr-98           AT&T Wireless         Mexico         02-Apr-98	_	9801221-5		AT&T Wireless	Diazii			System and Method for
18-Mar-98	[				Capada	12-Mar-98	30-Oct-01	Processing Dropped Calls
European Patent		2231938	2231938	AT&I Wireless	Callada	╁╌		System and Method for
AT&T Wireless Convention 18-war-50 AT&T Wireless Japan 09-Apr-98 AT&T Wireless Mexico 02-Apr-98	1		٠		European Patent			Processing Dropped Calls
AT&T Wireless Japan 09-Apr-98 AT&T Wireless Mexico 02-Apr-98		08302011 6		AT&T Wireless	Convention	18-Mar-90		System and Method for
AT&T Wireless Japan AT&T Wireless Mexico 02-Apr-98	ı	20000			0000	09-Apr-98		Processing Dropped Calls
AT&T Wireless Mexico 02-Apr-98		96520/1998		AT&T Wireless	Japan			System and Method for
AT&T Wireless   Wexled	i			1	Movico	02-Apr-98		Processing Dropped Calls
		982578		AT&T Wireless	INGNICO			

		4		Country	Application	Grant	
Docket	Application	Number	Owner	Name	Date	Date	Title
5			ATOT Missions	VONCON	07-Apr-98		System and Method for Processing Dropped Calls
	19981596		Alga Wedday	Tojecon	03.455-98	13-lim-00	System and Method for Processing Dropped Calls
	2605035	111939	A lot whereby	Spiral Clater	20. hil.97	06-Nov-01	Apparatus for Providing Enhanced Functionality to a Mobile Station
	08/502373	6514303 6477778	AT&T Wireless	United States	23-Dec-97	05-Nov-02	Method for Designing Wireless Communications Cell Sites Using Uplink Parameters
	00/330/04	0101119	AT&T Wireless	United States	23-Dec-97	05-Aug-03	A Method and System for Optimizing Performance of a Mobile Communications System
20.75	00.500-400 40.500-400		AT&T Wireless	United States	02-Dec-02		A Method and System for Optimizing Performance of a Mobile Communications System
	000,000,000	6017550	AT&T Wireless	United States	10-Apr-97	11-Jan-00	Method and System for Delivering a Voice Mail Notification to a Private Base Station Using Cellular Phone Network
	20000000 00000000000000000000000000000	100	AT&T Wireless	United States	04-Dec-97		Method and Apparatus for Voice Mail Sharing Between Wired and Wireless Telephones
	9801756-0		AT&T Wireless	Brazil	02-Jun-98		Method for Locating a Mobile Station
	2235982	2235982	AT&T Wireless	Canada	27-Apr-98 01-Jun-98	29-Jun-04 14-Mar-02	Mobile Station  A Method for Locating a  Mobile Station
	964555 87108313	116657	AT&T Wireless	Taiwan	28-May-98	24-Oct-00	A Method for Locating a Mobile Station
	08/868402	6167274	AT&T Wireless	United States	03-Jun-97	26-Dec-00	Method for Locating a Mobile Station Customized On-Line User
	2275186	2275186	AT&T Wireless	Canada European Patent	14-Oct-98	16-Dec-03	Guide Customized On-Line User Guide
353.EPC	98953442.5		AIGI Wireness	Convenience	20.00		

				Country	Application	Grant	Title	
Docket	Application	Patent	Owner	Name	Date	Date	Customized On-Line User	
Number	Number	- Community		neael	14-Oct-98		Guide	
353.JP	3228		AT&T Wireless				Customized On-Line User	
			ATOT Wireless	Mexico	14-Oct-98		Guide	-
353.MX	995662		A SA				Customized On-Line User	
		070070	AT&T Wireless	United States	22-Oct-97	04-Jun-02	Guide Customized On-Line User	
353.US	08/956130	5400840	AT&T Wireless	United States	26-Mar-02	21-Sep-04	Guide A Method and Apparatus	
353.US.C1	10/108275	6795702					for Filtering Packets Using	
9	2272054	2272054	AT&T Wireless	Canada	20-Oct-98	23-Sep-03	Apparatus for Filtering Packets Using a Dedicated	
356.CA	202122			1 Inited States	23-Oct-97	18-Jul-00	Processor	
256 150	08/956993	6092110	AT&T Wireless	United States			Filtering Packets Using a	
330.03				States	26-May-00	11-Nov-03	Dedicated Processor	
356.US.C1	09/580204	6647418	AT&T Wireless	2000			Filtering Packets Using a	
				1 Inited States	30-Sep-03		Dedicated Processor	Τ-
356.US.C1(1)	10/673439		AT&T Wireless				User Assisted Wireless Fraud Detection	
			AT&T Wireless	Brazil	10-Jun-98	  -  -	User Assisted Wireless	
357.BR	9801993			European Patent	21-May-98		Fraud Detection	_
000	98304042.9		AT&T Wireless	Convention			User Assisted Wireless Fraud Detection	<del>-</del>
273.705			AT&T Wireless	Japan	08-Jun-98	\ \ -\-	User Assisted Wireless	
357.JP	10-158792				08-Jun-98		Fraud Detection	$\overline{}$
357 MX	984569		AT&T Wireless	MEXICO			User Assisted Wireless Fraud Detection	-т
			AT&T Wireless	Norway	05-Jun-98		User Assisted Wireless	
357.NO	19982603			. !	00,110,98	12-May-00	Fraud Detection	$\top$
ACT TAN	87109176	110725	AT&T Wireless	Taiwan	06-1105-60		System and Method for Processing Dropped Calls	$\neg$
201.00	Q801220-7		AT&T Wireless	Brazil	31-Mar-90	PO-MON-00	System and Method for Processing Dropped Calls	
365.BK		2034033	AT&T Wireless	Canada	12-Mar-98	2000	System and Method for	-
365.CA	2231932	2231932		European Patent	nt   40 1/25 08		Processing Dropped Calls	
	98302012.4		AT&T Wireless	Convention	16-mail-30			
111111111111111111111111111111111111111			٠					

Docket	Application	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
365.IP	96519/199A		AT&T Wireless	Japan	09-Apr-98		System and Method for Processing Dropped Calls
365 MY	082570		AT&T Wireless	Mexico	02-Apr-98	,	System and Method for Processing Dropped Calls
365 NO	19981595		AT&T Wireless	Norway	07-Apr-98		System and Method for Processing Dropped Calls
365.5F	98302012 4		AT&T Wireless	Sweden	18-Mar-98		System and Method for Processing Dropped Calls
365.TW	87105091	108902	AT&T Wireless	Taiwan	03-Apr-98	27-Mar-00	System and Method for Processing Dropped Calls
365.US	08/838659	5995830	AT&T Wireless	United States	09-Apr-97	30-Nov-99	System and Method for Processing Dropped Calls
373.US	1710280	6201797	AT&T Wireless	United States	12-Dec-97	13-Mar-01	High Bandwidth Delivery and Internet Access for Airborne Passengers
3731IS.B1	10/389010		AT&T Wireless	United States	13-Mar-03		High Bandwidth Delivery and Internet Access for Airborne Passengers
SILION	<b>8</b> 66601		AT&T Wireless	United States	17-Aug-98		A Method and Apparatus for Determining Billing Rates for Communication Services
302.155	850164	6188897	AT&T Wireless	United States	17-Aug-98	13-Feb-01	Mobile Station Roaming in a Muttiple Service Provider Area
392 LIS C1	2132166	6470182	AT&T Wireless	United States	15-Sep-00	22-Oct-02	Mobile Station Roaming in a Multiple Service Provider Area
SI 170c	08/007085	6704565	AT&T Wireless	United States	23-Dec-97	09-Mar-04	Method and Apparatus for Providing a Hold Termination Message Service in a Communications Network
402.CA	2254393	2254393	AT&T Wireless	Canada	24-Nov-98	26-Feb-02	Method and Apparatus for Providing Calling Number Identification Alias in a Communications System
402.DE	98123490.9	69800769	AT&T Wireless	Germany	14-Dec-98	09-May-01	Method and Apparatus for Providing Calling Number Identification Alias in a Communications System

Date  Date  09-May-01							1	
Number		Application	Patent	١	Country	Application Date	Grant	Title
S26910   AT&I Wireless   Convention   14-Dec-98   09-May-01   Convention   Conven		Number	Number	Owner	Name			Method and Apparatus for providing Calling Number
926910   AT&T Wireless   Convention   14-Dec-96   09-May-01   Convention   14-Dec-96   09-Dec-03   Convention   17-Dec-96					atent	14-Dec-98	09-May-01	Identification Alias in a Communications System
14-Dec-98   09-May-01   14-Dec-98   09-Dec-03   14-Dec-98   14-Dec-08   14-Dec-09   14-D		98123490.9	926910	AT&T Wireless	-			Method and Apparatus for Providing Calling Number
926910   AT&T Wireless   France   Fra						14.002.98	09-May-01	Identification Alias in a Communications System
14-Dec-96   09-May-01   04-Dec-96   09-May-01   04-Dec-96   09-May-01   04-Dec-96   09-May-01   04-Dec-96   09-Dec-03   04-Dec-96   09-Dec-03   04-Dec-96   04-Dec-03   04-Dec-96   04-Dec-03   04-Dec-04   04-D		98123490.9	926910	AT&T Wireless	France	2000		Method and Apparatus for Providing Calling Number
926910   AT&T Wireless   Mexico   14-Dec-98   31-Jui-02   Co-						14-Dec-98	09-May-01	Identification Alias In a Communications System
1-00-08   31-Jul-02   1-00-08   1-00-08   1-00-08   1-00-08   1-00-08   1-00-09   1-		98123490.9	926910	AT&T Wireless	Great Diliani			Method and Apparatus for Providing Calling Number
209390   AT&T Wireless   Wextoo   Mack to     209300   AT&T Wireless   United States   02-Jul-02   09-Dec-03   CC     21		٠.				14-Dec-98	31-Jul-02	Identification Alias in a Communications System
G662006		9810631	209390	AT&T Wireless	Mexico			Method and Apparatus for Providing Calling Number
AT&T Wireless						. 03-114-02	09-Dec-03	Identification Alias in a Communications System
AT&T Wireless   Canada   10-Dec-98   M M M M M M M M M M M M M M M M M M		10/188521	6662006	AT&T Wireless	United States	20 102 20		Methods and Systems for
AT&I Wireless	1							Packets Over a Hybrid
European Patent 17-Dec-98 Nation 17-Dec-			•	sodojas tota	Canada	10-Dec-98		Network
European Patent T-Dec-98 Nation 17-Dec-98 Nation 17-Dec-98 Nation 17-Dec-98 Nation 16-Dec-98 Nation 16-Dec-98 Nation 17-Dec-98 Nation 17-Dec-9	ı	2255475		Alai Wildias				Managing the Routing of
AT&T Wireless   Convention   17-Dec-98   No.					European Patent			Packets Over a Hybrid Network
AT&T Wireless Mexico 16-Dec-98		08124220		AT&T Wireless	Convention	17-Dec-98		Methods and Systems for
AT&T Wireless   Mexico   19-0-0-32   No. 10-0-0-32   No. 10-0-0-0-32   No. 10-0-0-0-32   No. 10-0-0-0-32   No. 10-0-0-0-32   No. 10-0-0-0-32   No. 10-0-0-0-	1	6774706				46.Dec.08		Managing the Routing of Packets Over a Hybrid Network
31  42  42  42  6650897  AT&T Wireless  United States  United States  14-Dec-01  18-Nov-03  18-Nov-03  AT&T Wireless  Canada  20-Oct-98  23-Sep-03		0810839		AT&T Wireless	Mexico	20000		Methods and Systems for
AT&T Wireless United States 19-Dec-97  AT&T Wireless United States 14-Dec-01  AT&T Wireless United States 21-Nov-01  AT&T Wireless Canada 20-Oct-98 23-Sep-03	1							Managing the rooms of Packets Over a Hybrid Network
AT&T Wireless United States 14-Dec-01 18-Nov-03				AT&T Wireless	United States	19-Dec-9/	+-	Methods and Systems for
AT&T Wireless         United States         14-Dec-01         18-Nov-03           6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-03           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03	1	08/864651		· .				Managing the Routing of Packets Over a Hybrid
6650897         AT&T Wireless         United States         21-Nov-01         18-Nov-U3           2272056         AT&T Wireless         Canada         20-Oct-98         23-Sep-03				AT&T Wireless	United States	14-Dec-01	1	A Least Cockett Telenhony
6650897 AT&T Wireless Canada 20-Oct-98 23-Sep-03		10/017042		AT&T Wireless	United States	21-Nov-01	18-Nov-03	Aliciali Compilio
2272056 AT&T Wireless Canada 20-04-50		1918499	6650897			80	23-Sep-03	A Method and Apparatus for Updating Address Lists
		2272056	2272056	AT&T Wireless	Canada	20-001-90		

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant	<u>4</u>
							for a Packet Filter Processor
411.US	08/956990	6158008	AT&T Wireless	United States	23-Oct-97	05-Dec-00	Method and Apparatus for Updating Address Lists for a Packet Filter Processor
412.US	868062	6580914	AT&T Wireless	United States	17.Aug-98	17. lin 03	Method and Apparatus for Automatically Providing Location-Based Information Content on a Wilcology
414.US	09/207370	6427071	AT&T Wireless	United States	08-Dec-98	30-Jul-02	Apparatus and Method for Providing Transporting for a Control Signal
416.US	772368	6256735	AT&T Wireless	United States	17-Aug-98	03-Jul-01	Method and Apparatus for Limiting Access to Network Elements
416.US.C1	09/839113	6334188	AT&T Wireless	United States	23-Apr-01	25-Dec-01	Method and Apparatus for Limiting Access to Network Elements
422.US	09/474138		AT&T Wireless	United States	29-Dec-99		System and Method for Integrating Call Delivery for Fixed-Site and Mobility Services
423.EPC	1973089.4		AT&T Wireless	European Patent Convention	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.JP	2002-527188		AT&T Wireless	Japan	18-Mar-03		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.PCT.CP1	PCT/US01/29029		AT&T Wireless	Patent Cooperation Treaty	18-Sep-01		Method and System for Remote Call Forwarding of Telephone Calls From an IP Connection
423.US	09/010616	6141545	AT&T Wireless	United States	22-Jan-98	31-Oct-00	Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phorle
423.US.C1	10/426046		AT&T Wireless	United States	29-Apr-03		Method and System for Remote Call Forwarding of Telephone Calls From Cellular Phone

Docket	Application	Patent		Country	Application Date	Grant Date	Title	
Number	Number	Number	Owner	Name of the second			Method and System for Remote Call Forwarding of	
		·		3	18 Con-00	27-Mav-03	Telephone Calls From an	
123.US.CP1	2667977	6571094	AT&T Wireless	United States	lo-deb-or		Method of Notifying a	
			. !		19-Mav-99	04-Mar-03	Call Payment Responsibilities	
424.US	09/315087	6529726	AT&T Wireless	Onlied States	The second second		Method of Notifying a	
			ATP T Mireless	United States	10-0ct-02		Wireless Subscriber 25 & Call Pending Responsibilities	
424.US.C1	1371396		2000		00		Test Unit	
425.US.C1	09/648947		AT&T Wireless	United States	25-Aug-uo		Apparatus and Method for	
						00.Feb.00	Wireless Financial Transactions	
427.US	2152224	5870722	AT&T Wireless	United States	22-Sep-95	25 25 1-50	Method for Providing	
							Associated Service	
				:	44 60 00		Address Mobile Registration	
911807	252994		AT&T Wireless	United States	11-001-83		Method for Providing	
446.03	20202						Alternative Network-	
							Address Mobile	
				1 Inited States	07-Jul-04		Registration	
428.US.C1	10/884986		A1&1 Wireless	200000000000000000000000000000000000000			Method and Apparatus for Droviding Centralized URL	
				United States	19-May-99		Authorization	
429.US	09/315088		Algi Wildias				Detection of Interference in	
							Wireless Communication	
			AT&T Wireless	United States	10-Aug-01	10-Aug-04	System System	
430.US.C1	2265114	6775544	2000				lebound and Outboand	
							Data Packet Flow in a	
724 116	00/314330		AT&T Wireless	United States	19-May-99		Computer Network	т
431.03			<u> </u>				Optimizing Wireless	
433 US	2151858	5907801	AT&T Wireless	United States	22-Sep-95	25-May-99	Financial Iransacions	٦
						٠		

			-					
Docket	Application	Patent		Country	Application	Grant		<del></del>
Number	Number	Number	Owner	Name	Date	Date	Title	
							System and Method for the	e e
							Use of Digital Traffic	
							Channels in 15-136	
437 115	09/479066		ATPT Wirelass	Linited Ctates	00 001 70		Networks for Transmission	
22:12:	2000		A I WILEIESS	Ollifed States	UV-Jan-UU		or K-Data Packets	T
٠							System and Method for	
439.115	09/480152	GE7E044	ATOT 1417-1-1-2	· · · · · · · · · · · · · · · · · · ·			Adjusting the Traffic	
20.001	701604/60	1176/00	A I & I WIreless	United States	21-Jan-00	06-Jan-04	Carried by a Network	
					•		System and Method for	
439.US.C1	975473		AT&T Wingless	Linited Ctates	20,000		Adjusting the Traffic	
			ALGE WINGESS	חווובח סומובא	ns-Dec-ns		Carried by a Network	7
							Filtered In-Box for Voice	
						-	Mail, E-Mail, Pages, Web-	
440.US	09/386762	6628194	AT&T Wireless	United States	31-Aug-99	30-Sep-03	Faxes	-
							Filtered In-Box for Voice	Τ
							Mail E-Mail Pages Web-	
							Based Information, and	
440.US.C1	10/644641		AT&T Wireless	United States	19-Aug-03		Faxes	
							Wireless Adaptor and	Γ
, c 31 C77	0001		:				Wireless Financial	
442.03.02	08/04 / 299	5991410	AT&T Wireless	United States	09-May-96	23-Nov-99	Transaction System	
				•			Method and Apparatus for	
					-		Providing Enhanced	
443115	00/802872		ATOT Mississe	I Inited Ctates	70 171 07		Services at a Mobile	
2000	2020012		AIGI WIEEESS	United States	12-Mar-01		Communication Device	7
							Method and Apparatus for	_
		•					Wireless Data Services	
444.US	09/427417	6584321	AT&T Wireless	United States	27-Oct-99	24- lim-03	Service Selected Bearer	
							Method and Apparatus for	Τ.
							Wireless Data Services	
					•		Over a Selected Bearer	
444.US.C1	-454817		AT&T Wireless	United States	10-Jun-03		Service	٦
							System and Method for	
745116	20026745	•		11-11-1		•.	Outbox-Capable Wireless	
440.00	C470707		A I & I Wireless	United States	17-Jun-99		Transmission	7
							Method for Contacting a	
446.BR	147314		AT&T Wireless	Brazil	04-Jul-00		Subscriber to Multiple Wireless Bearer Services	
							Method for Contacting a	Ė
446.CA	2313647		AT&T Wireless	Canada	07-1-1-00		Subscriber to Multiple	-
			See an annual see	Carrava	00-100-10		Wildiess Dedict Oct vices	7

Docket Number 446.EPC 3	-1141			Country	Application	Grant	
per	Application	Patent		Name	Date	Date	Title
	Number	Number	Owner	Marie			Method for Contacting a
				European Patent	03-14-00		Wireless Bearer Services
	305600.9		AT&T Wireless	Convenient			Method for Contacting a
					07_141_00		Subscriber to Multiple Wireless Bearer Services
446.IP 2	2000-207053		AT&T Wireless	Japan	20-50-10		Method for Contacting a
						42 Mov. 02	Subscriber to Multiple Wireless Bearer Services
0   0	09/353241	6480720	AT&T Wireless	United States	14-Jul-99	20-404-21	Antonna Sumont Structure
			agolosia Tota	United States	01-Jun-95	18-Mar-97	(utility)
447.US	457161	5611176	Alai Wileiess			00	Antenna Support Structure
311877	43471	D398612	AT&T Wireless	United States	13-Sep-95	06-dac-77	Method for Diverting an
							ISUP Talkpath to an IP
			ATOT Wirelass	United States	11-Feb-00	10-Aug-04	Talkpath
451.US.C1	09/628980	6775270	AIGH WHICHOS			<u> </u>	Method for Diverting an
					70		Talkoath
	625087		AT&T Wireless	United States	02-Mar-04		Method for Automatically
451.03.01(1)	20000						Programming a Wireless
							Telephone With a Voice
							Mail System Access
				Brazil	22-May-00		Number
452.BR	213517		Alga Wireless				Method for Automatically
							Programming a Wireless
							Telephone With a Voice
							Mail System Access
			ATOT Wireless	Canada	24-May-00		Number Number
452.CA	2309406		AIGH WHENCES				Method for Automatically Mireless
				-			Telephone With a Voice
					-		Mail System Access
				European Patent			Number
	1 01000		AT&T Wireless	Convention	04-Apr-00		Method for Automatically
452.EPC	302848.7						Programming a Wireless
							Telephone With a Voice
						•	Mail System Access
			ATRT Wireless	Japan	29-May-00		Number A townstrolly
452.JP	2000-157517		Aldi viidos				Method for Autolification
							Telephone With a Voice
	•			2	00 411		Mail System Access
452 KB	10-2000-0030359		AT&T Wireless	South Korea	00-11nc-70		

•							· · · · · · · · · · · · · · · · · · ·		····				
Title		utomatically g a Wireless /ith a Voice Access	outomatically g a Wireless Vith a Voice Access	Aircraft Data Communications Services for Users	Services	System and Method for Communication Between Airborne and Ground-Based Entitles	Aircraft Data Communications Services for Users	Services	Method and Apparatus for Data Communication Utilizing the North American Terrestrial System	Method of Apparatus for Use in Forwarding Calls Intended for Roaming Subscriber Units	Floating Intrusion Detection	Floating Intrusion Detection Platforms	
j <del>.</del>	Number	Method for Automatically Programming a Wireless Telephone With a Voice Mail System Access Number	Method for Automatically Programming a Wireless Telephone With a Voice Mail System Access Number	Aircraft Data Communicati for Users	Aircraft Data Services	System and Method for Communication Betwee Airborne and Ground-Based Entitles	Aircraft Data Communicati for Users	Aircraft Data Services	Method and Apparate Data Communication Utilizing the North American Terrestrial System	Method of Apparatus i Use in Forwarding Cal Intended for Roaming Subscriber Units	Floating Into Platforms	Floating Intrusion Dev Platforms	Detection
Grant		12-Apr-02	24-Dec-02			06-Jul-04							14-Jan-03
Application	2	29-Mav-00	02-Jun-99	19-Jun-02	19-Jun-02	14-May-99	19-Jun-01	19-Jun-01	08-Apr-04	30-Dec-99	22-May-01	30-May-00	19-Jul-99
Country		Taiwan	States	Patent Cooperation Treaty	Patent Cooperation Treaty	United States	United States	United States	United States	United States	European Patent Convention	United States	United States
	Owner	AT&T Wireless		AT&T Wireless			AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent	Number	97097	6498930			6760778							6507866
Application	Number	0000	09/324486	PCT/US02/19336	PCTA IS02/49337	110015100	09/884724	09/884730	10/810044	0017E4E4	1304403 8	09/580689	09/356974
Docket	Number	WE CO		454 PCT CP1	454 PCT CP2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	454 US CP1	454.US.CP2	0 0 0		453.US	459.US	463.US

	•						
Docket	Application	Patent		Country	Application	Grant	Titlo
Nimbor	Nimber	Number	Owner	Name	Date	Date	Traine Mothode and
Mailibei							Apparatus for Wireless
				Choton Choton	OB. Nov. Of		Communications
470.US	650743		AT&T Wireless	$\dagger$			Monitoring Network
							Performance Using
							Individual Cell Phone
		٠					Location & Performance
			A T 0 T 14/2-1000	United States	21-Dec-00		Information
472.US	09/745268		AIGI WIEESS	Olimoo Olimoo			Method and Apparatus for
<del></del>							Use in Providing a
							Discounted Call Rate for
	!		ATPT Windows	Canada	02-Aug-00		Wireless Communications
474.CA	2314855		Algi wirerss	200100			Method and Apparatus for
							Use in Providing a
				European Patent			Discounted Call Rate for
			AT&T Wireless	Convention	02-Aug-00		Wireless Communications
474.EPC	116197.5		SCORP WILLIAM				Method and Apparatus for
							Use in Providing a
		-					Discounted Call Rate for
	u 0000077		AT&T Wireless	Hong Kong	21-Dec-01		Wireless Communications
4/4.HK	1109003.3						Method and Apparatus for
							Use In Providing a
					•.		Discounted Call Rate for
9	0000		AT&T Wireless	Japan	07-Aug-00		Wireless Communications
4/4.JP	2000-230722				-		Method and Apparatus for
					-		Use in Providing a
	•			•			Discounted Call Rate for
	70012200	6640008	AT&T Wireless	United States	25-Apr-00	28-Oct-03	Wireless Communications
4/4.03	09/22/301	004000	2000				Method for Registering
							With a Communication
	00007		AT&T Wireless	Brazil	05-May-00		Service
4/3.bK	143323						Method for Registering
	-						With a Communication
175 CA	2305971	2305971	AT&T Wireless	Canada	19-Apr-00	16-Mar-04	Service
000	10007					-	Method for Registering
				European Patent			With a Communication
747E EDC	3000003		AT&T Wireless	Convention	13-Mar-00		Service
4/3.EPC	302020.3						Method for Registering
			_		,		With a Communication
475 ID	2000-127609		AT&T Wireless	Japan	27-Apr-00		Service
1001							Method for Registering
							With a Confinction
475.TW	89108248		AT&T Wireless	Taiwan	01-May-00		Service
				•	•		

Application         Patent Number         Owner         Country Approximation           09/306761         Number         Owner         Name         Date           10/1080236         AT&T Wireless         United States         14-Jul-Or         10           10/10802286         6577723         AT&T Wireless         United States         13-Jul-Or         10           176167         AT&T Wireless         United States         07-Jun-Or         10           2463700         AT&T Wireless         Canada         20-Dec-Or           2463700         AT&T Wireless         Canada         20-Dec-Or           10104905         AT&T Wireless         United States         17-Sep-Or           10104905         AT&T Wireless         United States         17-Sep-Or           AT&T Wireless         United States         17-Sep-Or           10104905         AT&T Wireless         United States         17-Sep-Or           10104905         AT&T Wireless         United States         17-Sep-Or           10104907         AT&T Wireless         United States         17-Sep-Or						Annlication	Grant		
10690298	Docket	Application	Patent	Owner	Name	Date	Date	Title	
100800288	Jagun	Number	I SQUIDE					Method for Registerir With a Communication	P 5
10104905				AT&T Wireless	United States	07-May-99		Service	
101049028	S	09/306/61		2000				Method for Registerir With a Communication	<u>و</u> و
176167   1	70	900000		AT&T Wireless	United States	14-Jul-04		Service	
176167   176167   17617   17	10.00	10/080/230	000	AT&T Wireless	United States	13-Jul-00	10-Jun-03	Application of TCAP Criteria in SCCP Rou	uting
176167	.US	09/615485	67///60	Alai Wildias				System and Method	oţ
176167   AT&T Wireless   United States   07-Jun-00   14				·				Using Local Number Portability (LNP) to Redirect Terminating	Calls
Pedent   Patent   Patent   Patent   Cooperation   11-010-02   Patent   Treaty   Tr	<u>.</u>	476467		AT&T Wireless	United States	07-Jun-00		to a Service Node	
PCT/US02/21308	80	1010/1-			Patent Cooperation			Attribute Rule Enforc	ser for
568650	PCT	PCT/US02/21308		AT&T Wireless	Treaty	31-Jul-02		a Directory	io for
2463700   AT&T Wireless   Canada   20-Dec-01   1	<u>u</u>	78865N		AT&T Wireless	United States	01-Aug-01		a Directory	2 3
2463700         AT&T Wireless         Canada         20-Dec-01         Intent           T         PCT/US01/49729         AT&T Wireless         Treaty         20-Dec-01         Intent           C1         mailed         AT&T Wireless         United States         21-Dec-00         Intent           C1         mailed         AT&T Wireless         United States         17-Sep-04         Intent           C1         mailed         AT&T Wireless         Intent         Intent         Intent           C2         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless	3	20000						Methods and Systen	ns ror
2463700         AT&T Wireless         Canada         20-Dec-01         Intent           T         PCT/US01/49729         AT&T Wireless         Treaty         20-Dec-01         Intent           C1         mailed         AT&T Wireless         United States         21-Dec-00         Intent           C1         mailed         AT&T Wireless         United States         17-Sep-04         Intent           C1         mailed         AT&T Wireless         AT&T Wireless         AT&T Wireless         Intent           C2         Patent         Cooperation         Intent         Intent           C2         AT&T Wireless         Treaty         Intent								Communicating and Controlling Facsimile	0)
Patent   Cooperation   Coope	Š	2462700		AT&T Wireless	Canada	20-Dec-01		Information	1
PCT/US01/49729	47.	7403700						Methods and Syster	ns for
PCT/US01/49729   AT&T Wireless   Treaty   20-Dec-01   1					Patent Conneration			Communicating and Controlling Facsimile	 _ <b>0</b>
C1         mailed         AT&T Wireless         United States         21-Dec-00           C1         mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           Cooperation         Cooperation         19-Oct-01           T PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01	PCT	DCT#1501/49729		AT&T Wireless	Treaty	20-Dec-01		Information	1
09/745209         AT&T Wireless         United States         21-Dec-00           mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01	2							Methods and Syster	TIS 104
09/745209         AT&T Wireless         United States         21-Dec-00           mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01								Controlling Facsimil	Φ.
mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01	9	09/745209		AT&T Wireless	United States	21-Dec-00		Information	20,000
mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01							<del></del>	Communicating and	5 5
mailed         AT&T Wireless         United States         17-Sep-04           10104905         AT&T Wireless         Argentina         18-Oct-01           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01								Controlling Facsimil	<b>e</b>
10104905 AT&T Wireless Argentina 18-Oct-01 PCT/US01/50369 AT&T Wireless Treaty 19-Oct-01	5 5116	Palled		AT&T Wireless	United States	17-Sep-04		Information	
10104905         AT&T Wireless         Argentina         18-Oct-01           Patent         Cooperation         Cooperation           PCT/US01/50369         AT&T Wireless         Treaty         19-Oct-01	1000						:	Revenue for Transn	nission
10104905         AT&T Wireless         Argentina         18-Oct-01           Patent         Cooperation         AT&T Wireless         Treaty         19-Oct-01	٠.							of Wireless Data Fr	e mo
Patent Cooperation AT&T Wireless Treaty 19-Oct-01	. AR	10104905		AT&T Wireless	Argentina	18-Oct-01		Vehicle	
PCT/US01/50369 AT&T Wireless Treaty 19-Oct-01					Patent	-	:	Revenue for Transr	nission
PCT/US01/50369 AT&T Wireless Treaty 19-Oct-01		•	•		Cooperation	•		of Wireless Data Fr	om a
	1.PCT	PCT/US01/50369		AT&T Wireless	Treaty	19-Oct-01		Venice	

	Acitositas	Patent		Country	Application	Grant Date	Title
Docket	Number	Number	Owner	Name	Date		Method of Sharing
is control							of Wireless Data From a
			AT&T Wireless	Venezuela 1	18-Oct-01		System and Method for
91.VZ	2206-2001						Automatically Transferring
							a Call From a First
							Telephone to a Designation
					00 00		Proximity
,			AT&T Wireless	United States	20-Dec-33		System and Method for
493.US	2578858						Using a Short-Range
							Radio Link to Directly
٠							Telephones Connected
							Through a
							Primary Communications
				1 Inited States	20-Dec-99		Network
31170	2557308		AT&T Wireless	OIIIIEN CIGICO			Telematics services
484.03							System Using Verlide
							I/O Functions
			AT&T Wireless	United States	16-Oct-00		Methods and Systems for
497.US	09/688401						Using Network Capabilities
					18.Dec-00		to Correct Phone Displays
•	77000	· •	AT&T Wireless	United States	10-000-00	   	Multiple Handset Cradle
498.US	09/739044			2000	28-Mov-00		Assembly
31.007	311432		AT&T Wireless	United States	20 101107	 	Methods and Systems for
499.US	204110				•		Audio Distribution Over
							Aircran Telecommunications
	,	-		-	;		Wirlng
			AT&T Wireless	United States	10-May-01		Activation and Remote
501.US	-266747						Modification of Wireless
							Services in a Packer
				1 Inited States	07-Nov-00		Network Comex:
91.60	09/707671		AT&T Wireless	Ollifa Oraco			A Method for Programms
203:03			- · · ·				Permanent Mobile Station
					:		Identifier
			AT&T Wireless	United States	01-Nov-00		Method and Apparatus for
504.US	09/703858						Providing Personal Audio
				European Patent			Alert Messaging for Audio
-	2724147 8		AT&T Wireless	Convention	03-May-02	<u> </u>	Raise
300.EP.C	2134141				:		

																																		_		:		:	1
Title	Method and Apparatus for Providing Personal Audio	Alert Messaging for Audio Alerting Capable Terminals	Personal Audio Alert	Message for Audio Alering	Method and Annarative for	Providing Interactive Text	Messages During a Voice	Call	Method and Systems for	Managing Customizable	Content on Wireless Data	Devices	Method and Systems for	Managing Customizable	Content on Wireless Data	Devices	Methods and Systems for	Managing Information on	Wireless Data Devices	Using Wireless Cookles to	Deliver Network-Based	Location Information	Using Wireless Cookies to	Deliver Network-Based	Location information	System and Method of	Providing Public Voicemail	Service to riivate ivetwork	Superingia	System and Method for	Using a Temporary	Electronic Serial Number	of a Mahile Device	OI & MOUIN DAMES	System and Method for	Clockonic Social Number	for Over the Air Activation	of a Mobile Device	
<b>Grant</b> Date																		,	05-Aug-03																				
Application Date		03-May-02		90	0-10-00			31-Jul-01				16-May-01				16-May-01			14-May-01			12-Jun-02			12-Jun-01				30-May-01				70	LO-AON-GO				07-Nov-01	07-101-10
Country	Patent	Cooperation Treaty		0.1010	United States			United States			European Patent	Convention		-		Japan		•	United States	Patent	Cooperation	Treaty			United States				United States				•	Argentina				Brozil	Diacii
Owner		AT&T Wireless			AT&I Wireless			AT&T Wireless				AT&T Wireless				AT&T Wireless			AT&T Wireless	•		AT&T Wireless			AT&T Wireless		•		AT&T Wireless	;				AT&T Wireless	-				Al&I Wireless
Patent																			6603984			-					•					•							
Application		DCT/11S02/13904	1000120010		09/899956			-577934				1111280.2				2001-146263			372427		٠	PCT/US02/18611			09/879351	-			09/867989					10105179					PI0105120-2
Docket		TOG BOT			506.US	-		507.05				513.EPC				513.JP			513.US		-	517.PCT			517.US			•	519.US				·.	520.AR					520.BR

							_	
Docket	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Мате	Care		System and Method for	
					,		Using a Temporary Electronic Serial Number	
							for Over-the-Air Activation	
	· ·		AT&T Wireless	Canada	03-Oct-01	·	or a Mobile Device	
520.CA	2358175		COOL IN IN IN				System and memorary	
							Electronic Serial Number	
				Furnhean Patent			for Over-the-Air Activation	
				Convention	07-Nov-01		of a Mobile Device	
520 FPC	1994191.3		AT&T Wireless				System and Method for	
2000							Using a Temporary	
	-						Electronic Serial Number	
							Tor Over-me-All Activation	
			ATOT Windless	Japan	07-Nov-01		of a Mobile Device	
520.JP	2002-558719		Alai Wireress				System and Method Iol	
							Using a remporary	
							Electronic Serial Indiniber	
		. :					for Over-the-Air Activation	
				Movico	01-Nov-01		of a Mobile Device	
520 MX	PA/a/2001/011175		AT&T Wireless	MEXICO			System and Method for	
350.MA							Using a Temporary	
			•	Patent			Electronic Serial Number	
				Cooperation			of a Mobile Device	
			AT&T Wireless	Treaty	07-Nov-01		Or a Modile Course	
520.PCT	PCT/US01/47711		Alai VIIGGSS				System and Internoorion	
							Using a Temporary	•
							Electronic Serial Nothing	
		•					for Over-me-Air Activation	
•			AT&T Wireless	United States	07-Nov-00	08-Jul-03	Sistem and Method for	
520.US	09/707593	0801800	5				I Jeing a Temporary	
						_	Electronic Serial Number	
	-			<del></del>			for Over-the-Air Activation	
					00 400 03		of a Mobile Device	
01.00	07700770		AT&T Wireless	United States	00-IdV-00		System and Method for	
520.03.01	21.601.01		-				Using a Temporary	
-							Electronic Serial Number	
					<u> </u>		for Over-the-Air Activation	
			20010-1141	Venezuela	05-Nov-01	.	of a Mobile Device	
520.VZ	2001-002318		Ala Wildias	Patent			Using a Wireless Cookle to	
-				Cooperation			Deliver Mobile-based	
-	DCT// ICO2/18612		AT&T Wireless	Treaty	12-Jun-02			_
525.FC1	20000000							

925/LUS         09679349         A761 Wineless         United States         12-Jun01         Deliver Mothin-Base Device beneated by the control of	Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
C.         Fig. 1 Wireless         Canada         16-Nov-01           C.         1594.087.3         AT&T Wireless         Convention         16-Nov-01           T         PCT/US01/43671         AT&T Wireless         Convention         16-Nov-01           1         O9/714036         AT&T Wireless         United States         17-Nov-00           2         09/714033         AT&T Wireless         United States         17-Nov-00           3         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714033         AT&T Wireless         United States         17-Nov-00           6         09/714033         AT&T Wireless         United States         17-Nov-00           7         PCT/USD2/1450         AT&T Wireless         United States         17-Nov-00           8         09/714033         AT&T Wireless         United States         17-Nov-00           9         PCT/USD2/1450         AT&T Wireless         United States         10-Apr-02           10/120475         6/799033         AT&T Wireless         United States         10-Apr-02           10/104906         AT&T Wireless         United States         10-Apr-02         10-Apr-02	5.US	09/879349		AT&T Wireless	United States	12-Jun-01		Using a Wireless Cookie to Deliver Mobile-Based Location Information
C         1994087.3         AT&T Wireless         European Patent Convention         16-Nov-01           T         PCT/US0143671         AT&T Wireless         Treaty Treaty         16-Nov-01           2         09/714036         AT&T Wireless         United States         17-Nov-00           3         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         17-Nov-00           5         09/714033         AT&T Wireless         United States         17-Nov-00           6         09/714031         AT&T Wireless         United States         17-Nov-00           7         PCTUUS02/11450         AT&T Wireless         United States         16-Nov-00           8         09/714031         AT&T Wireless         United States         16-Nov-00           9         10/120475         6799033         AT&T Wireless         United States         10-Apr-02           10/104906         AT&T Wireless         United States         10-Apr-02         10-Apr-02	7.CA	2428440		AT&T Wireless	Canada	16-Nov-01		A Short Message Point-to- Point Protocol Gateway Having a Standard Interface
T PCT/USG1/43671 AT&TWireless Treaty Tooly 16-Nov-01  1 09/714036 AT&TWireless United States 17-Nov-00  2 09/714033 AT&TWireless United States 17-Nov-00  3 09/714033 AT&TWireless United States 17-Nov-00  5 09/714033 AT&TWireless United States 17-Nov-00  6 09/714033 AT&TWireless United States 17-Nov-00  7 PCT/USG2/11430 AT&TWireless United States 16-Nov-00  8 09/714033 AT&TWireless United States 16-Nov-00  9 09/714031 AT&TWireless United States 16-Nov-00  10/120475 6799033 AT&TWireless United States 10-Apr-02 28-Sep-04 10104806 AT&TWireless Argentina 18-Oct-01	7.EPC	1994087.3		AT&T Wireless	European Patent Convention	16-Nov-01		An SMPP Gateway Having
1         09/714036         AT&T Wireless         United States         15-Nov-00           2         09/714035         AT&T Wireless         United States         17-Nov-00           3         09/714034         AT&T Wireless         United States         17-Nov-00           4         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         17-Nov-00           6         O9/714031         AT&T Wireless         United States         16-Nov-00           7         Patent         Cooperation         12-Apr-02         28-Sep-04           8         09/968528         AT&T Wireless         United States         10-Apr-02         28-Sep-04           9         09/968528         AT&T Wireless         United States         10-Apr-02         28-Sep-04           10104906         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless	7.PCT	PCT/US01/43671		AT&T Wireless	Patent Cooperation Treaty	16-Nov-01		An SMPP Gateway Having a Standard Interface
2         09/714035         AT&T Wireless         United States         17-Nov-00           3         09/714034         AT&T Wireless         United States         17-Nov-00           4         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         17-Nov-00           6         AT&T Wireless         United States         16-Nov-00           7         AT&T Wireless         United States         16-Nov-00           8         AT&T Wireless         United States         16-Apr-02           9         AT&T Wireless         United States         10-Apr-02           10/120475         6799033         AT&T Wireless         United States           10/104906         AT&T Wireless         United States         10-Oct-01	7.US1	09/714036		AT&T Wireless	United States	16-Nov-00		An SMPP Gateway Having a Standard Interface
3         09/714034         AT&T Wireless         United States         17-Nov-00           4         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         17-Nov-00           6         09/714031         AT&T Wireless         United States         16-Nov-00           7         10/120475         6799033         AT&T Wireless         United States         10-Apr-02           8         09/968528         AT&T Wireless         United States         10-Apr-02         28-Sep-04           90/968528         AT&T Wireless         United States         02-Oct-01         18-Oct-01	7.US2	09/714035		AT&T Wireless	United States	17-Nov-00		Method of Delivering Short Messages Using an SMPP Gateway With a Standard Interface
4         09/714033         AT&T Wireless         United States         17-Nov-00           5         09/714032         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         16-Nov-00           6         Patent Cooperation         12-Apr-02         28-Sep-04           7         10/120475         6799033         AT&T Wireless         United States         10-Apr-02         28-Sep-04           10104906         AT&T Wireless         AT&T Wireless         AT&T Wireless         AT&T Wireless         10-Apr-02         28-Sep-04	7.US3	09/714034		AT&T Wireless	United States	17-Nov-00		Method of Binding to a SMPP Gateway
5         09/714032         AT&T Wireless         United States         17-Nov-00           5         09/714031         AT&T Wireless         United States         16-Nov-00           7         PCT/US02/11450         AT&T Wireless         Treaty         12-Apr-02           10/120475         6799033         AT&T Wireless         United States         10-Apr-02         28-Sep-04           10104906         AT&T Wireless         United States         02-Oct-01         18-Oct-01	7.US4	09/714033		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Anti-Spam Control Using a SMPP Gateway
3         09/714031         AT&T Wireless         United States         16-Nov-00           PCT/US02/11450         AT&T Wireless         Cooperation         12-Apr-02           10/120475         6799033         AT&T Wireless         United States         10-Apr-02         28-Sep-04           10104906         AT&T Wireless         United States         02-Oct-01         18-Oct-01	7.US5	09/714032		AT&T Wireless	United States	17-Nov-00		A System and Method for Performing Throttle Control in a SMPP Gateway
Patent Cooperation   Patent Cooperation   Cooperation   12-Apr-02   10/120475   6799033   AT&T Wireless   United States   10-Apr-02   28-Sep-04   10104906   AT&T Wireless   AT&T Wireless	.US6	09/714031		AT&T Wireless	United States	16-Nov-00	·	A System and Method of Performing Flow Control in a SMPP Gateway
10/120475         6799033         AT&T Wireless         United States         10-Apr-02         28-Sep-04           09/968528         AT&T Wireless         United States         02-Oct-01         AT&T Wireless         AT&T Wireless         ATQU-01         ATQU-01	3.PCT	PCT/US02/11450		AT&T Wireless	Patent Cooperation Treaty	12-Apr-02		Scrolling Display for Mobile Telephone Text Messaging
09/968528         AT&T Wireless         United States         02-Oct-01           10104906         AT&T Wireless         Argentina         18-Oct-01	. SU.	10/120475	6799033	AT&T Wireless	United States	10-Apr-02	28-Sep-04	Scrolling Display for Mobile Telephone Text Messaging
10104906 AT&T Wireless Argentina 18-Oct-01	SN'	09/968528		AT&T Wireless	United States	02-Oct-01		Network Access Using Network Identification
	AR	10104906		AT&T Wireless	Argentina	18-Oct-01		Shared-Revenue Billing System for Transmission of

Apparatus	pparatus and controlling a W evice Associa ehicle hared-Reven ystem for Tra vireless Data vireless Data (ehicle vireless Data (ehicle Aethods and & Aethods and Sommunication Communication Controlling Data (controlling Data (cont	pparatus and Meth conitoring a Wireles evice Associated V ebicle hared-Revenue Bi ystem for Transmi Vireless Data from ehicle hared-Revenue Bi vystem for Transmi Vireless Data from Antitoring Data Zommunication of Mireless Device Associated with a V System for Transmi Antitoring Data Absternite Device Shared-Revenue E Shared-Revenue E Shared-Revenue E Shared-Revenue E Shared-Revenue E Shared-Revenue E Shared-Revenue E	opparatus and Method I Annitoring a Wireless Device Associated With Cehicle Shared-Revenue Billing System for Transmissio System for Transmissio System for Transmissio System for Transmissio Mireless Data from a Methods and Systems Methods and Systems Methods and Systems Communication of a Wireless Device Associated with a Vehicle Shared-Revenue Billing System for Transmissis Wireless Data from a Vehicle Methods and Systems Monitoring Data Communication of a Wireless Data from a Vehicle Methods and Systems Monitoring Data Communication of a Wireless Device Associated with a Vehicle Communication of a Wireless Device Associated with a Vehicle Communication of a Mireless Device Associated with a Vehicle Associate	Apparatus and Method for Monitoring a Wireless Device Associated With a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle System for Transmission of System for Transmission of System for Transmission of Wireless Data from a Vehicle Monitoring Data Communication of a Wireless Device Associated with a Vehicle Shared-Revenue Billing System for Transmission of Other Device Associated with a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle Monitoring Data Communication of a Wireless Data from a Vehicle Shared-Revenue Billing System for Transmission of a Wireless Data from a Vehicle Shared-Revenue Billing System for Transmission of a Wireless Data From a Vehicle	Apparatus and Method for Monitoring a Wireless Device Associated With a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle Methods and Systems for Monitoring Data Communication of a Wireless Device Associated with a Vehical or Other Device Shared-Revenue Billing System for Transmission of Wireless Device Associated with a Vehical or Other Device Monitoring Data Communication of a Wireless Data from a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data from a Vehicle Monitoring Data Communication of a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Shared-Revenue Billing System for Transmission of Wireless Data From a Vehicle Method and System for Audibly Announciding an Indication of an Identity of a Sender of a S
יאלה	Monitoring and Monitoring Data Methods and Methods and Methods and Methods and Monitoring Data	Monitoring a Wireles Device Associated Vehicle Shared-Revenue Bi System for Transmi Wireless Data from Vehicle Shared-Revenue Bi System for Transmi Wireless Data from Vehicle Monitoring Data Communication of Wireless Device Associated with a Vor Other Device Shared-Revenue Ei System for Transmi Wireless Data from Wireless Data from Vehicle Shared-Revenue Ei System for Transmi	Monitoring a Wireless Device Associated Wil Vehicle Shared-Revenue Billin System for Transmiss Wireless Data from a Vehicle Shared-Revenue Billin System for Transmiss Wireless Data from a Vehicle Monitoring Data Communication of a Wireless Device Associated with a Ve or Other Device Shared-Revenue Billin System for Transmiss Wireless Data from a Vehicle Methods and System Monitoring Data Communication of a Wireless Data from a Vehicle Methods and System Monitoring Data Communication of a Wireless Data from a	Monitoring a Wireless Device Associated W Vehicle Shared-Revenue Bill System for Transmis Wireless Data from a Vehicle Shared-Revenue Bill System for Transmis Wireless Data from 5 Vehicle Monitoring Data Communication of a Wireless Device Associated with a V or Other Device Shared-Revenue Bill System for Transmit Wireless Data from Vehicle Methods and System Monitoring Data Communication of a Wireless Data from Vehicle Monitoring Data Communication of s Wireless Device Associated with a V Shared-Revenue Bil System for Transmit Wireless Device Associated with a V Shared-Revenue Bil System for Transmit Wireless Data from Vehicle Associated with a V Shared-Revenue Bil System for Transmit Wireless Data From Vehicle	Nowitoring a Wireless Device Associated W Vehicle Shared-Revenue Bill System for Transmis Wireless Data from a Vehicle Shared-Revenue Bill System for Transmis Wireless Data from a Vehicle Monitoring Data Communication of a Wireless Data from a Vehicle Shared-Revenue Bill System for Transmis Wireless Data from a Vehicle Shared-Revenue Bill System for Transmis Wireless Data from vehicle Associated with a V Shared-Revenue Bill System for Transmi Wireless Data from vehicle Associated with a V Shared-Revenue Bill System for Transmi Wireless Data from vehicle Associated with a V Shared-Revenue Bill System for Transmi Wireless Data from vehicle Associated with a V Shared-Revenue Bill System for Transmi Wireless Data from vehicle Audibly Announcing in indication of an ide a Sender of a Communication
Monitoring Device Ass	Shared-Reven System for Tra Wireless Data Vehicle System for Tra Wireless Data Vehicle Methods and S Monitoring Da Communicatio	Shared-Revenue System for Transt Wireless Data fro Vehicle Shared-Revenue System for Transt Wireless Data fro Vehicle Methods and Sys Monitoring Data Communication Wireless Device Associated with is or Other Device Shared-Revenue System for Transt Wireless Data fro Vehicle	Shared-Revenue System for Trans Wireless Data frou Vehicle Shared-Revenue System for Trans Wireless Data fro Vehicle Methods and Sys Monitoring Data Communication of Wireless Device Associated with it or Other Device System for Trans Wireless Data fro	Shared-Revenue System for Trans Wireless Data frou Vehicle Shared-Revenue System for Trans Wireless Data fro Vehicle Methods and Sys Monitoring Data Communication of Wireless Device Associated with sor Other Device System for Trans Wireless Data fro Wireless Data	Shared-Revenue System for Trans Wireless Data fro Vehicle Shared-Revenue System for Trans Wireless Data fro Vehicle Methods and Sys Monitoring Data Communication of Wireless Device Associated with or Other Device Shared-Revenue System for Trans Wireless Data fro W
Shared-Re		3003500055	30,30,000	505 500 00 50 22 20 20 00 00 20 20 20 20 20 20 20 20	500 > 500 00 3 > 22 0 2 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0
<u></u>	35 S S S S S S S S S S S S S S S S S S S			5 5 0 0 0 5 7 2 2 5 7 5 0 0 0 7 7 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	5 9 0 0 0 3 7 2 2 0 7 0 0 0 7 7 0 0 0 0 7 0 0 0 0 0
	15-Jun-04	15-Jun-04	15-Jun-04	15-Jun-04	15-Jun-04
19-Oct-00		07-Jun-04	07-Jun-04 06-Jul-04 06-Jul-04	06-Jul-04	06-Jul-04 06-Jul-04 18-Oct-01
United States		United States	United States United States	United States United States Venezuela	United States United States Venezuela Patent Cooperation Treaty
AT&T Wireless		AT&T Wireless	AT&T Wireless AT&T Wireless AT&T Wireless	AT&T Wireless AT&T Wireless AT&T Wireless	AT&T Wireless AT&T Wireless AT&T Wireless AT&T Wireless
AT&1	-	AT&	ATS: ATS: ATS	AT8: AT8 AT8	AT8. AT8 AT8
6751475					
50164					1
1987994.9 PCT/US01	09/691798	10/862	10/8627 malled	10/862 10/862 10/889	10/862 10/862 10/88
531.EPC 531.PCT	1	1 1			531.US.C1 531.US.C2 531.US.CP1 531.VZ

·	Erase	ce for less	for a nicular	for a nicular	Quality cations iss	ration bility					
Title	Location Information Erase on SIM Cards	Prepaid Phone Service for Both Wired and Wireless Telecommunication Devices	Sharing of Wireless Telephone Services for a Personal Wireless Telephone and a Vehicular Wireless Telephone	Sharing of Witeless Telephone Services for a Personal Wireless Telephone and a Vehicular Wireless Telephone	Intelligent Network Selection Based on Quality of Service and Applications Over Different Wireless Networks	Operations, Administration and Maintenance of Components in a Mobility					
Grant Date						04-Mar-03					
Application Date	21-Dec-00	19-Dec-01	20-Dec-01	21-Dec-01	21-Dec-01	21-Dec-00	17-Dec-02	03-Oct-01	03-Oct-01	29-Dec-00	16 Mov. 04
Country Name	United States	Argentina	Chile	European Patent Convention	Patent Cooperation Treaty	United States	United States	Patent Cooperation Treaty	United States	United States	Short Shorten
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	3
Patent Number						6529593					
Application Number	09/742313	10105972	3117-2001	1991484.5	PCT/US01/49803	09/742924	10/322218	PCT// IS01/31205	09/971080	09/75/2487	
Docket Number	533.US	535.AR	535.CL	535.EPC	535.PCT	535.US	535.US.C1	536 PCT	536 US	S39 S1	

		•						_
Docket	Application	Patent		Country	Application	Grant	Title	
Number	Number	Number	Owner	Name	2		Network	
							Inter-Carrier Sort Text	
			AT&T Wireless	Canada	22-Jan-03		Message Delivery	T
541.CA	2417028			Octob Challen	17. lan-03		Message Delivery	
541.US	10/347504		AT&T Wireless	United States	10 Dec 01		Quick SMS Reply	
542118	10/024833		AT&T Wireless	United States	200-61		Methods and Systems for	<u>.</u> و
						-	Providing Application Level Presence Information in Wireless Communication	eve o c c
543.AR	10105421		AT&T Wireless	Argentina	20-Nov-01		Methods and Systems for	ğ
							Providing Application Level Presence Information in Wireless Communication	eve u
5 67	2820-2001		AT&T Wireless	Chile	Z0-Nov-07		System for Providing	
343.CL	1007.0707			European Patent	20-Nov-01		Wireless Communication Presence Information	<b>6</b>
543.EPC	1997932.7		AT&I WIREIESS				Methods and Systems for	- tor
-				Patent			Presence Information in	
			a tot Mission	Treaty	20-Nov-01		Wireless Communication	ē
543.PCT	PCT/US01/43228		Alai Wiieless		-		Methods and Systems for   Providing Application Level	Level
				actor Coticul	20-Nov-01		Presence Information in Wireless Communication	드등
543.US	1596720		AT&T Wireless	United States			Electronic Surveillance Via	e Via
			AT&T Wireless	United States	27-Feb-02		Correlation of Call Legs	Si ja
548.US	10/086192						Correlation of Call Legs in	gs In
	100000		AT&T Wireless	United States	27-Feb-02		a Hairpin Loop Scenario Wireless Communications	flons
248.03	66000				:		System and Method of Operation for Reducing	ng d
( )	2278535	2278535	AT&T Wireless	Canada	30-Jan-98	31-Dec-02	Wireless Communications	tions
V	000.177			European Patent	30-10-08	04-Aug-04	System and Method of Operation for Reducing Fraud	jo gi
550.EPC	98904768.3	956733	AT&T Wireless	Conveniuon			Wireless Communications	ations
					30-Jan-98		System and Medicul of Operation for Reducing Fraud	<b>6</b>
550.JP	2515700		AT&T Wireless	Japan				
							-	

				·					····			
Title	Wireless Confimunications System and Method of Operation for Reducing Fraud	Wireless Communications System and Method of Operation for Reducing Fraud	Wireless Communications System and Method of Operation for Reducing Fraud	Real-Time Network Analysis and Performance Management	Real-Time Drive Network Analysis and Performance Management	A Method and Apparatus to Manage a Resource	A Method and Apparatus to Store, Access, and Forward Messages	SACCH-Based Fast Power Control for GERAN (GSM Edge Radio Access Network)	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routling of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo MSISDNs	Hotline Routing of Pre- Activated GSM Subscribers Using Pseudo
	Wireless Co System and Operation f	Wireless Co System and Operation f Fraud	Wireless C System and Operation f Fraud	Real-Time Network Analysis and Perfor Management	Real-Time Dr Analysis and Management	A Method and Appar Manage a Resource	A Method and Appa Store, Access, and Forward Messages	SACCH-Based Fast Control for GERAN Edge Radio Access Network)	Hotline Routing Activated GSM Subscribers Us MSISDNs	Hotline Routing Activated GSM Subscribers Us MSISDNs	Hotline Routing Activated GSM Subscribers Us MSISDNs	Hotline Routing Activated GSM Subscribers Us
Grant Date	06-Dec-02	16-May-00	21-May-02									
Application Date	30-Jan-98	31-Jan-97	30-Nov-99	04-Mar-02	04-Mar-02	26-Oct-01	27-Nov-01	08-Nov-01	04-Jun-02	18-May-04	04-Jun-02	04-Jun-02
Country Name	Mexico	United States	United States	Patent Cooperation Treaty	United States	United States	United States	United States	European Patent Convention	Hong Kong	Patent Cooperation Treaty	United States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	211880	6064875	6393283									
Application Number	997060	1288790	09/451589	PCT/US02/06909	10/090265	10/039577	09/995327	60/337892	2734731.9	4103513.8	PCT/US02/18053	10/162304
Docket Number	550.MX	550.US	550.US.C1	553.PCT	553.US	557.US	559.US	562P.US	564.EPC	564.HK	564.PCT	564.US

Docket         Application         Orienty         Application         Orienty         Title           Number         Number         Number         Number         Number         Title           SES.CA         2441764         AT\$TWHERS         Canada         03-46-02         Enthalian           SES.CA         2441764         AT\$TWHERS         Chine P.R.         03-46-02         Enthalian           SES.CA         2441764         AT\$TWHERS         Chine P.R.         03-46-02         Enthalian           SES.CA         2441764         AT\$TWHERS         Chine P.R.         03-46-02         Enthalian           SES.CA         2307712.1         AT\$TWHERS         Chine P.R.         03-46-02         Enthalian           SES.LP         2755749.1         AT\$TWHERS         South Korea         CAn-error         Methods and Apparatus for P.R.           SES.LP         2755749.1         AT\$TWHERS         South Korea         03-46-02         Enthalian (color)           SES.LP         AT\$TWHERS         South Korea         03-46-02         Methods and Apparatus for P.R.           SES.LP         PAB-20020000011         AT\$TWHERS         South Korea         03-46-02         Methods and Apparatus for P.R.           SES.LS         104473226								
2441764	Docket	Application	Patent	Owner	Country	Application Date	Grant Date	
2441764   AT&T Wireless   Canada   03-Apr-02   E	Number	Mailbe						MSISDNs
244764   AT&I Wireless   Canada   03-Apr-02   National								Methods and Apparatus for
2441764				STOT Mississippe	Canada	03-Apr-02		Estimation
27.55749.1   AT&T Wireless   China P.R.   03.Apr.02   R.	565.CA	2441764		A I Q I VVII CICSS	2021100			Methods and Apparatus for
2759749.1   AT&T Wireless   Convention   03-Apr-02								Mobile Station Location
European Patent   Convention	565.CN	2807712.1		AT&T Wireless	China P.R.	03-ADI-02		Methods and Apparatus for
Table					European Patent	03-Apr-02		Mobile Station Location Estimation
Table	565.EPC	2759749.1		Al & I Wireless	i i i i i i i i i i i i i i i i i i i			Methods and Apparatus for
Table					Code	03-Apr-02		Mobile Station Location Estimation
PAJAZ003/009011	565.JP	mailed		A G I WITEIESS	odpair			Methods and Apparatus for
2003-7012902					90207, 41:100	03.0 8.00		Mobile Station Location Estimation
PAJA/2003/009011         AT&T Wireless         Mexico         03-Oct-03           T         PCT/US02/10791         AT&T Wireless         Treaty         03-Apr-02           10/473926         AT&T Wireless         United States         08-Mar-04           2808405.5         AT&T Wireless         United States         05-Dec-01           C         2728813.3         AT&T Wireless         China P.R.         17-Oct-03           mailed         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           C         2728813.3         AT&T Wireless         Japan         17-Oct-03           Patent         Cooperation         16-Apr-02         AT&T Wireless           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           T         AT&T Wireless         United States         04-Mar-02	565.KR	2003-7012902		AT&T Wireless	South Notes	20-10A-00		Methods and Apparatus for
PAJa/2003/009011         AT&T Wireless         Mexico         03-Oct-03           PCT/USO2/10791         AT&T Wireless         Treaty         03-Apr-02           10/473926         AT&T Wireless         United States         08-Mar-04           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Convention         16-Apr-02           T         Patent         Cooperation         16-Apr-02           AT&T Wireless         Japan         17-Oct-03           Cooperation         AT&T Wireless         Lineaty           AT&T Wireless         Lineaty         16-Apr-02							٠,	Mobile Station Location
Patent Cooperation   Patent Cooperation	> 1	0 4 10 1000010100014		AT&T Wireless	Mexico	03-Oct-03		Estimation
PCT/US02/10791	365.MA	- Markonskonskon		5	Patent		٠.	Methods and Apparatus for
10/473926					Cooperation			Mobile Station Location
10,473926 10,473926 1839637 2808405.5 2808405.5 2728813.3 AT&T Wireless United States 05-Dec-01 European Patent Convention 17-Oct-03 Convention 17-Oct-03 Convention 16-Apr-02 Convention 16-Apr-02 Cooperation 17-Oct-03 AT&T Wireless Japan 17-Oct-03 Cooperation 16-Apr-02 AT&T Wireless Japan 17-Oct-03 AT&T W	EGE DOT	DCT//10202/10704		AT&T Wireless	Treaty	03-Apr-02		Estimation
10/473926         AT&T Wireless         United States         08-Mar-04           1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         Lireaty         16-Apr-02         AT&T Wireless	363.FC	PC1/030210731						Mobile-Assisted Network   Location System (MNLS)
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PocT/US02/12181         AT&T Wireless         Japan         17-Oct-03           AT&T Wireless         Japan         17-Oct-03         Cooperation           T         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         Licaty         16-Apr-02	9	40,447		AT&T Wireless	United States	08-Mar-04		Overview
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           T         AT&T Wireless         United States         04-Mar-02	565.US	10/4/3920		5				Methods and Apparatus for
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           T         AT&T Wireless         United States         04-Mar-02		•						Anonymous User
1839637         AT&T Wireless         United States         05-Dec-01           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           C         2728813.3         AT&T Wireless         Convention         16-Apr-02           T         PCT/US02/12181         AT&T Wireless         Japan         17-Oct-03           T         PCT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02								Personalization in Wireless
TB39637         AT&T Wireless         China P.R.         17-Oct-03           2808405.5         AT&T Wireless         China P.R.         17-Oct-03           Convention         16-Apr-02           AT&T Wireless         Japan         17-Oct-03           T         Petent         Cooperation           T         AT&T Wireless         Treaty           16-Apr-02         AT&T Wireless           10001047         AT&T Wireless           United States         04-Mar-02				AT&T Wireless	United States	05-Dec-01		Communication
2808405.5         AT&T Wireless         China P.R.         17-Oct-03           2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           Convention         17-Oct-03           Patent         Cooperation         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	566.US	1839637		Ala Wicies				Binding Information for IP
European Patent         European Patent         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           POT/US02/12181         AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	568 CN	2808405.5		AT&T Wireless	China P.R.	17-Oct-03		Media Flows
2728813.3         AT&T Wireless         Convention         16-Apr-02           mailed         AT&T Wireless         Japan         17-Oct-03           Cooperation         Cooperation         16-Apr-02           AT&T Wireless         Treaty         16-Apr-02           AT&T Wireless         United States         04-Mar-02	5				European Patent			Binding Information for IP
mailed	568.EPC	2728813.3		AT&T Wireless	Convention	16-Apr-02		Riodino Information for IP
Patent   Cooperation   Cooperation   16-Apr-02   Cooperation   16-Apr-02   Cooperation   16-Apr-02   Cooperation   16-Apr-02   Cooperation   10/091047   Cooperation   10/091047   Cooperation   10/091047   Cooperation   Cooperation   Cooperation   10/091047   Cooperation   C		100		AT&T Wireless	Japan	17-Oct-03		Media Flows
Cooperation   Cooperation   16-Apr-02     Cooperation   16-Apr-02     Cooperation   16-Apr-02     Cooperation   10-Apr-02     Cooperation	368.JF	Lianed			Patent			
PCT/US02/12181 AT&T Wireless Treaty C-Apr 22 AT&T Wireless United States 04-Mar-02					Cooperation	18 Apr 02		Binding Information for IP   Media Flows
10/091047 AT&T Wireless United States 04-Mar-02	568.PCT	PCT/US02/12181		AT&T Wireless	Heary	10-10-10-10-10-10-10-10-10-10-10-10-10-1		Binding Information for IP
	. 568	10/001047		AT&T Wireless	United States	04-Mar-02	-	Media Flows

					Country	Annlication	Grant	
1111278-4	Docket	Application	Patent	Owner	Name	Date	Date	Title
111279.4   AT&T Wireless   Convention   16-May-01   D	Number	Number	Number					Method and Systems for Searching and Managing
1111279.4   1111			•		European Patent			Information on Wireless
1112/9.4   16.May-01   16.Ma			•	AT&T Wireless	Convention	16-May-01		Data Devices
2001-149264   AT&T Wireless   Japan   16-May-01   D	573.EPC	47877111						Method and Systems for
2001-146264   AT&T Wireless   Japan   16-May-O1   Discrete   Dis								Searching and Mireless
2001-146264   AT&T Wireless   Japan   The May-O1   D		•						Data Davices
456433	573.IP	2001-146264		AT&T Wireless	Japan	16-May-01		Mathod and Systems for
456433	10:010							Method and Systems to
AT&T Wireless   United States   14-May-01   Process								Searching and Managing
A T&T Wireless   United States   14-May-U1   R						70		Data Devices
C   2773532.3   AT&T Wireless   Convention   30-Apr-04   V   V   V   V   V   V   V   V   V	573118	456433		AT&T Wireless	United States	14-May-01		Deconition of an
European Patent Convention 30-Apr-04 Treaty Convention 19-Sep-02 Treaty	20.00	201001			•			Automatic Connection
European Patent 30-Apr-04 T&T Wireless Convention 30-Apr-04 T&T Wireless Convention 19-Sep-02 Treaty								Using Spoken Address
2773532.3   AT&T Wireless   Convention   30-Apr-04   Fatent   Cooperation   19-Sep-02   Fatent   Cooperation   19-Sep-02   Cooperation   19-Sep-02   Cooperation   Coope								Information Received in
2773532.3 AT&T Wireless Convention 30-Apr-04 Freely Cooperation 19-Sep-02 Freely Freely Freely Freely Freely AT&T Wireless Canada 24-Jun-02 AT&T Wireless Canada 24-Jun-02 AT&T Wireless Treaty Cooperation 24-Jun-02 AT&T Wireless Treaty Treaty 24-Jun-02 AT&T Wireless Treaty Treaty 24-Jun-02 AT&T Wireless Treaty	_				European Patent			Voice Mails and Real Time
## Patent Cooperation 19-Sep-02   Patent Cooperation				AT&T Wireless	Convention	30-Apr-04		Telephone Conversations
PCT/US02/30124 AT&T Wireless Treaty (Cooperation 19-Sep-02 (Cooperat	576.EPC	2773532.3		AIGH WHICHOS				Recognition of an
Patent Cooperation 19-Sep-02 Treaty Treaty Treaty Treaty Treaty Treaty 19-Sep-02 Treaty Treaty 19-Sep-02 Treaty 19								Automatic Connection
PCTAUS02/30124								Using Spoken Address
PCT/US02/30124   AT&T Wireless   Treaty   19-Sep-02	-				Patent			Voice Mails and Deal Time
PCT/US02/30124 AT&T Wireless I reary 15-3cp-02.  09/972572 AT&T Wireless United States 03-0ct-01  mailed AT&T Wireless Canada 24-Jun-02  Cooperation Cooperation 24-Jun-02  AT&T Wireless Treaty 24-Jun-02  Treaty Treaty 24-Jun-02					Cooperation	10. Con. 112		Telephone Conversations
Duited States   03-Oct-01	576.PCT	PCT/US02/30124		AT&T Wireless	reary	13-025-05		System and Method for
mailed AT&T Wireless United States 03-Oct-01  AT&T Wireless Canada 24-Jun-02  Cooperation Cooperation 24-Jun-02  AT&T Wireless Treaty 24-Jun-02								Recognition of and
Determined   Det		-			•			Automatic Connection
09/972572   AT&T Wireless   United States   03-Oct-01								Using Spoken Address
09/972572         AT&T Wireless         United States         03-Oct-01           mailed         AT&T Wireless         Canada         24-Jun-02           AT&T Wireless         Cooperation         24-Jun-02           AT&T Wireless         Treaty         24-Jun-02					·			Information Received in
09/972572         AT&T Wireless         United States         03-Oct-01           mailed         AT&T Wireless         Canada         24-Jun-02           AT&T Wireless         Cooperation         Cooperation           AT&T Wireless         Treaty         24-Jun-02								Voice Mails
09/972572         AT&T Wireless         United States         03-Oct-01           mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         Cooperation           AT&T Wireless         Treaty         24-Jun-02					<del></del>			and Live Telephone
09/972572         AT&T Wireless         Canada         24-Jun-02           mailed         Patent         Cooperation         24-Jun-02           T1         PCTAIS02/20105         AT&T Wireless         Treaty         24-Jun-02	,			AT&T Wirelace	United States	03-Oct-01		Conversations
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02	576.US	09/972572		20001111				Method and Apparatus for
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02	•			•				Providing Power and
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02	•							Wireless Protocol
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02								Capability to a Wireless
mailed         AT&T Wireless         Canada         24-Jun-02           Patent         Cooperation         24-Jun-02						,		Device, Such as a vineras
Patent Cooperation 24-Jun-02 AT&T Wireless Treaty 24-Jun-02				AT&T Wireless	Canada	24-Jun-02		Phone
Patent Cooperation Cooperation AT&T Wireless Treaty 24-Jun-02	577.CA	mailed		200				Method and Apparatus for
Patent Cooperation Cooperation 24-Jun-02 AT&T Wireless Treaty							-	Providing Power and
Patent Cooperation Cooperation AT&T Wireless Treaty 24-Jun-02								Wireless Protocol
Cooperation Cooperation 24-Jun-02 AT&T Wireless Treaty					Patent			Capability to a Wireless
PCTAIS02/20105 AT&T Wireless Treaty 24-Jun-02					Cooperation			Device, Such as a vineress
	677 DCT4	DCT//1502/20105		AT&T Wireless	Treaty	24-Jun-02		Frone

					- Handlen	- trong	
Docket	Application	Patent		Country	Application	Date	Title
Number	Number	Number	Owner	Name			Wireless Adapter for Use
				Patent			With Proprietary Hands- Free Car Kits in Support of
			AT&T Wireless	Treaty	24-Jun-02		Multi-Model Mobile Phones
577.PCT2	PCT/US02/20165		2000	Patent			
			•	Cooperation	24-1un-02		Bluetooth External Module for Car Radio
577.PCT3	PCT/US02/20121		AT&T Wireless	ılealy			Method and Apparatus for
							Providing Power and
							Capability to a Wireless
							Device, Such as a Wireless
			ATRT Wireless	United States	31-Dec-01	21-Oct-03	Phone
577.US1	10/036188	6636/49	200011				Method and Apparatus for Providing Power and
							Wireless Protocol
							Capability to a Wireless
							Device, Such as a Wireless
			AT&T Wireless	United States	29-Jul-03		Frome Adamos for I so
577.US1.C1	10/630646		5				Wireless Adapter 101 Use
							Free Car Kits in Support of
					70 00		Multi-Model Mobile Phones
6211122	10/036151		AT&T Wireless	United States	31-060-01		Bluetooth External Module
100:16				1 Inited States	31-Dec-01		for Car Radio
577.US3	10/036109		AT&T Wireless	Ollifed States			System and Method for
2001							Providing an Automatic
				-			Response to a Telephone
			AT&T Wireless	United States	06-May-02		Mothod and Apparatus for
585.US	700107				42 8600 05	30-141-96	Preventing Wireless Fraud
586 HS C1	08/440183	5541977	AT&T Wireless	United States	12-IVIDY-30		Secure
0.000							Validation/Registration of
			AT&T \A/ireless	United States	23-May-96	19-May-98	Analog Cellular Phones
586.US.C2	08/652214	5754952	AIGI WIIGIGSS				A Cellular/PCS Handset
							NAM Download Capability
				-		40.00	System
587.CN	94106449.2	94106449.2	AT&T Wireless	China P.R.	12-Jun-94	10000	A Cellular/PCS Handset
							NAM Download Capability
							Using a Wide-Area Paging
9		202545B	AT&T Wireless	Japan	16-Jun-94	18-Feb-00	System
387.31	4661 JOACCI -0	201000					

			1	· .		<u> </u>				r					<del></del>
Title	A Cellular/PCS Handset NAM Download Capability Using a Wide Area Paging System	Cellular/PCS Handset NAM Download Capability Using a Wide-Area Paging System	ation nd Reporting	nation nd Reporting	nation nd Reporting	Traffic Information Estimation and Reporting System	Pager-Controlled Wireless Radiotelephone								
<b>;</b>	A Cellular/PCS Handset NAM Download Capabili Using a Wide-Area Pagi System	Cellular/PCS Handset NAM Download Capat Using a Wide-Area Pa System	Traffic Information Estimation and Reporting System	Traffic Information Estimation and Reporting System	Traffic Information Estimation and Reporting System	Traffic Information Estimation and Re System	Pager-Controlled Radiotelephone	Pager-Controlle Radiotelephone	Pager-Controlled Radiotelephone	Pager-Controlled	Pager-Controlle Radiotelephone				
Grant Date	24-Aug-02	24-Feb-98	27-Jul-99	20-Dec-00	20-Dec-00	20-Dec-00	20-Dec-00		24-Oct-00	24-Mar-98	05-Oct-00				07-Apr-98
Application Date	26-May-94	20-Aug-96	14-Aug-96	28-Aug-96	28-Aug-96	28-Aug-96	28-Aug-96	13-Sep-96	05-Sep-96	14-Sep-95	09-Jan-97	10-Dec-96	10-Jan-97	10-Jan-97	11-Jan-96
Country	South Korea	60		>	n Patent		Great Britain	Japan		United States	Australia		European Patent Convention	Japan	States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	363502	5722084	2183284	DE69611274D	763807	763807	763807		199227	5732383	721050 .				5737707
Application Number			2183284	763807	96113768.4	96113768.4	96113768.4	242430/1996	963902	768685	10091/97	2192500	97100336.3	2480/1997	08/584417
Docket Number		25				588.FR	588.GB	588.JP	588.MX			589.CA	589.EPC	589.JP	589.US

					401100	Crant	
Docket	Application	Patent	Owner	Name	Date	Date	Title
Number	Number			Anetralia	09-Jan-97	19-Oct-00	Automated Wireless-Call Completion Using a Paging Network
591.AU	10092/97	721605	Alor Wieless	o conco	10.Dec.96	05-Dec-00	Automated Wireless-Call Completion Using a Paging Network
591.CA	2192513	2192513	Al&i Wireless	European Patent	40 20 01		Automated Wireless-Call Completion Using a Paging Network
591.EPC	97100337.1		AT&T Wireless	Japan	10-Jan-97		Automated Wireless-Call Completion Using a Paging Network
FL.190	24/9/199/	0000	AT&T Mirefoce	United States	11-Jan-96	01-Sep-98	Automated Wireless-Call Completion Using a Paging Network
591.US	U8/38441b	3802410	ATOT Wireless	United States	08-Sep-97	07-Sep-99	Method and Apparatus for Spatial Redundancy in Cellular Networks
592.US	2207009	5950134	ALG. Wildias	Canada	08-Apr-98	09-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.CA	2234322	7704077	AT&T Wireless	China P.R.	02-Jun-98	·	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
283.CN	96109534.2	N 95890809	AT&T Wireless	Germany	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
393.UE	08302715.2	883317	AT&T Wireless	European Patent Convention	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593.ER	98302715.2	883317	AT&T Wireless	France	07-Apr-98	31-Jul-02	Analog-to-Digital Transition: Selecting the Optimal Cellular Radio Mix
593 GB	98302715.2	883317	AT&T Wireless	Great Britain	07-Apr-98	31-Jul-02	Transition: Selecting the Optimal Cellular Radio Mix
G. COS	40 452363		AT&T Wireless	Japan	02-Jun-98		Transition: Selecting the Optimal Cellular Radio Mix
593.US	08/868403	5960339	AT&T Wireless	United States	03-Jun-97	28-Sep-99	Analog-to-Ugital Transition: Selecting the Optimal Cellular Radio Mix

Docket         Application Number         Pate Number           Number         Number         Number           594.EPC         97103159.6         793375           594.EPC         97103159.6         793375           594.GB         97103159.6         97103159.6           594.UP         45001/1997         97103159.6           594.US         08/608232         5960340           595.US         09/893869         6002935           595.US         09/893869         6052598           596.US         08/941231         6052598           597.CA.CP1         2204815         2204815           597.CA.CP1D1         2350939         2204815	Patent Number 3375	Owner AT&T Wireless AT&T Wireless AT&T Wireless	Country Name Name European Patent Convention Great Britain	Application Date	Grant	Title
C2 97103159.6 7933 97103159.6 9710 97103159.6 9710 10-1997-0006587 10-1997-0006587 08/662095 6002 08/862095 6002 C2 09/893869 6005 CP1 2204815 2204	3375 103159.6	AT&T Wireless AT&T Wireless AT&T Wireless	atent			Automatic Cellular
97103159.6 97103159.6 45001/1997 10-1997-0006587 10-1997-0006587 08/608232 08/608232 08/608232 08/608232 08/608232 08/608232 08/608232 08/608232	3375 103159.6	AT&T Wireless AT&T Wireless AT&T Wireless				Telephone Registration for Universal Telephone
97103159.6 45001/1997 10-1997-0006587 08/608232 08/862095 08/841231 CP1 2204815 CP1 2350939	103159.6	AT&T Wireless AT&T Wireless	Great Britain	26-Feb-97	26-Nov-03	Number Service
97103159.6 45001/1997 10-1997-0006587 08/608232 08/608232 08/862095 CZ 09/893869 CP1 2204815 CP1 2350939	103159.6	AT&T Wireless AT&T Wireless	Great Britain			Automatic Cellular Telephone Registration for
97103159.6 45001/1997 10-1997-0006587 08/608232 08/862095 08/841231 CP1 2204815 CP1 2350939	103159.6	AT&T Wireless AT&T Wireless	Great Britain			Universal Telephone
45001/1997 10-1997-0006587 08/608232 08/862095 08/862095 CZ 09/893869 .CP1 2204815 .CP1 2350939		AT&T Wireless		26-Feb-97	26-Nov-03	Number Service
45001/1997 10-1997-0006587 08/608232 08/862095 08/862095 .C2 09/893869 .CP1 2204815 .CP1 2350939		AT&T Wireless				Automatic Cellular
.C2 09/893869 .CP1 2204815 .CP1 2350939		AT&T Wireless				lelephone Registration for
10-1997-0006587 08/608232 08/862095 .C2 09/893869 .CP1 2204815			Japan	28-Feb-97		Number Service
10-1997-0006587 08/608232 08/862095 C2 09/893869 CP1 2204815 CP1D1 2350939	_					Automatic Cellular
10-1997-0006587 08/608232 08/862095 C2 09/893869 CP1 2204815 CP1D1 2350939						Telephone Registration for
CP 1D1 2350939		A T 0 T 18/1:01:00	Courth Kores	28-Eeh.07	-	Universal Telephone
.C2 09/893869 .CP1 2204815 .CP1D1 2350939		A I & I WIFEIESS	South Noted	76-021-07		Nominer Service
.C2 09/893869 .CP1 2204815 .CP1D1 2350939						Automatic Celiular Telephone Registration for
.c2 09/893869 .C2 09/893869 .CP1 2204815 .CP1D1 2350939						Universal Telephone
.C2 09/893869 .CP1 2204815 .CP1 2350939	160340	AT&T Wireless	United States	28-Feb-96	28-Sep-99	Number Service
08/862095 09/893869 08/941231 1 2204815 1D1 2350939						Wireless Communications
09/893869 09/893869 1 2204815 1D1 2350939						Cellular Architecture for
09/893869 08/941231 1 2204815 1D1 2350939	002935	AT&T Wireless	United States	22-May-97	14-Dec-99	Resource Allocation
09/893869 08/941231 1 2204815 1D1 2350939						Wireless Communications
09/893869 08/941231 1 2204815 1D1 2350939						Cellular Architecture for
09/893869 08/941231 1 2204815 1D1 2350939			Charles of Charles	100	.,	Improving Communications
08/941231 2204815 2350939		AT&T Wireless	United States	79-3un-01		Resource Allocation
08/941231 2204815 2350939						Method for Predicting the
08/941231 2204815 2350939						Station in a Mobile
2204815	52598	AT&T Wireless	United States	30-Sep-97	18-Apr-00	Communications Network
2204815		-				Method for Self-Calibration
2350939	004046	AT&T Wireles	Canada	08-Mav-97	12-Aug-03	Communication System
	01000					Method for Self-Calibration
						of a Wireless
<del> </del>		AT&T Wireless	Canada	08-May-97		Communication System
						Method for Self-Calibration of a Wireless
597.CA.CP1D2 2352594		AT&T Wireless	Canada	08-May-97		Communication System
			European Patent			Wireless Communication System With Adaptive
597.EPC.D1 1116398.7		AT&T Wireless	Convention	06-Jul-01		Channel Allocation

						,	
103000	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Method for Self-Calibration of a Wireless
				nevel	24-Oct-97		Communication System
407 IP CP1	291857/1997		AT&T Wireless	Japan			Method for Self-Calibration
							of a Wireless Communication System
	7000		AT&T Wireless	Japan	10-Jul-01		Method for Self-Calibration
597.JP.D1	2001-205384			United States	25-Oct-96	29-Oct-02	Communication System
597.US.CP1	08/736871	6473623	AT&T Wireless				of a Wireless
		677E640	AT&T Wireless	United States	08-Oct-02	10-Aug-04	Communication System Method for Self-Calibration
597.US.CP1C1	1133622	6/13348					of a Wireless
	1080CC100	6496699	AT&T Wireless	United States	30-Dec-98	1/-Dec-02	Method and System for
597.US.D1	18/222094						Providing Access to a Telecommunications
				Canada	12-Mar-98	18-Feb-03	Network Suctom for
598.CA	2231928	2231928	AT&I WIREIESS	Control			Method and System for   Providing Access to a
						·	Telecommunications
				04:30	02-Jun-98		Network
N 903	98109550.X		AT&T Wireless	Connar.n.			Method and System for
20.00							Providing Access to a
					,	70	Network
			AT&T Wireless	Germany	02-Mar-98	19-May-04	Method and System for
598.DE	98301494.5	883315	2000		-		Providing Access to a
				European Patent			Telecommunications
	1	000015	AT&T Wireless	Convention	02-Mar-98	19-May-04	Method and System for
598.EPC	98301494.5	515500					Providing Access to a
							Telecommunications
			AT&T Wireless	France	02-Mar-98	19-May-04	Method and System for
598.FR	98301494.5	883315	300				Providing Access to a
			-				Telecommunications
			2001001141 7-07-4	Great Britain	02-Mar-98	19-May-04	Network Suction for
598.GB	98301494.5	883315	Alai Wildiess				Providing Access to a
							Telecommunications
-	687/MAS/98		AT&T Wireless	India	01-Apr-98		Network
280.11	OCCUPATION 1						

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
			·				Method and System for Providing Access to a
598.JP	10-145267		AT&T Wireless	negel.	27-Mav-98		Telecommunications
							Method and System for
						,	Providing Access to a
598 MX	084254		A T 0 T 14/1-1/4/	Mordon	90		Telecommunications
SSO.WA	204004		Alai Wireless	Mexico	01-Jun-98		Network
							Method and System for
							Providing Access to a
598.US	08/868407		AT&T Wireless	United States	03-Jun-97		Network
<u> </u>							International Roaming
				•			Service for Permitting a
							Cellular/Wireless
•							l elephone Instrument to
	-						Access Different Wireless
600.BR	0003715-0		AT&T Wireless	Brazil	21-Aug-00		Systems
							informational Beaming
							Service for Permitting a
				•			Cellular/Wireless
					,		Telephone Instrument to
							Telenhone Network
600.CA	2316088		AT&T Wireless	Canada	17-Aug-00		Systems
							International Roaming
							Service for Permitting a
							CellularWireless
							Telephone Instrument to
				- European Datent			Access Different Wireless
600.EPC	112746.3		AT&T Wireless	Convention	16-Jun-00		Systems
							International Roaming
							Service for Permitting a
							CellularWireless
							Telephone Instrument to
							Access Different Wireless
600.JP	2000-254818		AT&T Wireless	Japan	25-Aug-00		Systems
							International Roaming
				-			Service for Permitting a
0110	7777	0077210	A TOT LEGISLA	Cototo Cotici	27 A.: 00	70	Cellular/Wireless
900.00	09/364451	D/ 34490	AIGI WIREIBSS	Omited States	71-Aug-88	47-Jun-77	l elephone instrument to

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Access Different Wireless
						•	Systems
•							International Roaming
							CellularWireless
			•				Telephone Instrument to
_							Access Different Wireless
							Telephone Network
				1 Inited States	17-Jun-04		Systems
600.US.C1	mailed		AT&I WIreless	Ollingo Organo			Method and Apparatus for
							Navigation Using a Portable Communication
	-			Octobal Chatter	22-Dec-99	13-Nov-01	Device
5115	09/469266	6317684	AT&T Wireless	United States	25.000		Method and Apparatus for
902.00							Enhanced 911 Location Using Power Control in a
			,	11-ited Chatae	21. lan-00	11-Jun-02	Wireless System
503 115	09/489477	6404388	AT&T Wireless	United States	21-0ai-12		Method and Apparatus for
903:03							Enhanced 911 Location
					CO.V.CM AC	08-101-03	Wireless System
. 17 2118	10/155380	6590533	AT&T Wireless	United States	24-IVIQY-VE		Method and Apparatus for
003.03.03							Using Power Control in a
			-	1 Inited Ctates	06-Jun-03		Wireless System
603.US.C1(1)	10/456052		AT&T Wireless	OIIIIEO OGRES		,	Intelligent Roadway
			AT&T Wireless	United States	15-Nov-02	01-Jun-04	System Enhanced Communication
604.US.C1	10/295293	5/44383	5				Service for Predicting and
					3		Handling Communication Interruption
805115	09/900773		AT&T Wireless	United States	10-102-90		
20.500			solosiMi ToTA	European Patent   Convention	18-Feb-03	·	Secure Online Purchasing
606.EPC	3743137.6		Algi Widess	Patent			
<u>.</u>				Cooperation	18-Feb-03		Secure Online Purchasing
606.PCT	PCT/US03/04650	·	AI&I Wireless	I Inited States	22-Feb-02		Secure Online Purchasing
606.US	10/080988		AT&1 Wireless	United States	30-May-02		Secure Online Purchasing
606.US.CP1	10/160656		AT&T Wireless	OIIIIGO CIGIGO			A Call Queue in a Wireless
SU 209	10/017629		AT&T Wireless	United States	13-Dec-01		Device

	us and base	l for Rights r	l for Rights	physick	5		ation of	aid	pie			for	ethods			<u>18</u>	ء	I
Title	Efficient Synchronous and Asynchronous Database Replication	System and Method for Providing a Digital Rights Scheme for Browser Downloads	System and Method for Providing a Digital Rights Scheme for Browser	Virtual Subscriber Network		PIC Freeze	Biometric Authentication of a Wireless Device User	Multi-Standard Prepaid	Multi-Standard Prepaid	Prepaid Telecommunications System	Prepaid Telecommunications System	System and Method for SMS Text Routing	Text Abbreviation Methods and Apparatus and Systems Using Same	Speech to Message Processing	Interrogate Response Communication (IRC)	Interactive Education Tool	Receiver Test System	
Grant Date													·					
Application Date	31-Jul-02	23-May-03	30-Mav-02	25-Sep-02	28-May-04	20-Oct-03	24-May-02	09-Mar-04	18-Mar-03	12-Nov-03	14-Nov-02	07-May-04	28-Oct-02	28-Oct-02	19-Feb-03	23-Oct-02	04-Aug-03	-
Country Name	United States	Patent Cooperation Treaty	United States	United States	United States	United States	United States	Patent Cooperation Treaty	United States	Patent Cooperation Treaty	United States	United States	United States	United States	United States	United States	United States	
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	•
Patent Number																		_
Application Number	10/209754	PCT/US03/16652	10/160695	10/259558	1387467	10/690468	10/155917	PCT/US04/07235	-445686	PCT/US03/36316	10/295233	10/840810	10/282742	10/282909	mailed	10/279170	10/634977	•
Docket Number	608.US	609.PCT	90.0S	614.US	618.US	619.US	621.US	622.PCT	622.US	625.PCT	625.US	628.US	630.US	632.US		635 US.CP1	693.03	_

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Maine			Configured Based on Same
			200	1 Inited States	22-Jul-02		Methods and Apparatus for Formatting Information for a Communication
638.US	216500		AT&I WIRERS	200000000000000000000000000000000000000			Conditional Application
		,	AT&T Wireless	United States	19-Dec-02		Device Authorited Device
639.US	10/324494						Behavior Management
							Based on Network Charging and Rating
				United States	19-Dec-02		Conditions
640.US	10/324354		AT&T Wireless	חווופח סופוסס			Automated Device
							Behavior Management Based on Preset
			100	1 Inited States	19-Dec-02		Preferences
641.US	10/324159		A I & I WIREIESS	Somo politico			Control of Security or
						٠.	Ease-of-Use Sensitivity for
				,	. (		Operice
31.079	10/32/870		AT&T Wireless	United States	19-Dec-02		Verification System for
042.03	2000			:			Facilitating Transactions
							via Comunication
	٠			•			Networks and Associated
	. !	<u> </u>	ATRT:Wireless	United States	20-Dec-02		Method
644.US	10/325408					• •	Ceneral Purpose
				Linited States	31-Oct-03		Provisioning Technologies
645.US	10/700301		AT&I WIREIESS	Collingo Collingo			Self-Activation via Wired
	700007		AT&T Wireless	United States	01-Nov-02		System and Method for
645P.US	00/423224						Network Data Quality
				United States	31-Dec-02		Measurement
-646.US	1779371		AI & I WITEIESS	201110			Networks and Methods
			<del></del>		;	-	Integrating Digital Mobile Standards
840115	10/445173		AT&T Wireless	United States	23-May-03		Interface for a Multi-
20:65			2 - 14 (1-12)	1 Inited States	12-Feb-03		Messaging System
652.US	10/364421		A LOLI WITEHESS			 	Autopopulation of Address
853116	10/346497		AT&T Wireless	United States	18-Jan-03		Book Entries
033.03	10:00:00						

Docket	Application	Patent		Country	Application	Grant		
Number	Number	Number	Owner	Name	Date	Date	Title	e
				Patent			Location Determining	nining
		6.		Cooperation			System for wireless	Sess
655.PCT	PCT/US03/18449		AT&T Wireless	Treaty	10-Jun-03		Method (Friend Finder)	Finder)
							System for Providing	/iding
	-						Location-Based Services in	Services in
						٠	a Wireless Network, Such	vork, Such
655 1 IC.	1000000			11-11-1			as Locating Individuals and	ividuals and
000.00	10/324984		A I & I Wireless	United States	20-Dec-02		Coordinating Meetings	eetings
							System for Providing	iding
							Location-Based Services in	Services in
							a Wireless Network, Such	vork, Such
			•				as Modifying Locating	cating
					• •		Privileges Among	Managina
							licity of Individuals	Mariaging
							Associated with Such	5.00 10.00
655.US1	10/325566		AT&T Wireless	United States	20-Dec-02	-	Privilege With	300
				2000	12000		A	
							Apparatus and Systems for	Systems for
							Providing Location-Based	ion-Based
655.US2	10/325270		ATRT Wireless	I Inited States	20.00		Services within a wireless	a wireless
			Sign Mildigs	סווונכת סומונס	Z0-060-02		Network	
*****							Data Structures and	and
						_	Methods for Location	ation-
6551153	10/325032		A TOT 14/12-12-0	I Inited Chates			Based Services Within a	Within a
20000	10/323032		A I & I WITEIESS	United States	Z0-Dec-0Z		Wireless Network	¥
							Method for Providing	iding
							Location-Based Services in	Services in
							a Wireless Network, Such	vork, Such
655.US4	10/325322		AT&T Wireless	United States	20-Dec-02		as varying Levels of	is of
				Patent				
				Cooperation			of contract of con	
658.PCT	PCT/US03/35439		AT&T Wireless	Treaty	24-Oct-03		Communication Events	Events
!							Profile Driven Response to	esponse to
658.US	10/281651		AT&T Wireless	United States	28-Oct-02		Communication Events	Events
665.US	10/617437		AT&T Wireless	United States	11-10-03		Simplified Wireless Device	ess Device
					3		Silling C	
				Patent			System and Method for Integrating Local-Area and	thod for il-Area and
668.PCT	PCT///S03/33513	,	AT&T Wireles	Cooperation	22 02		Wide-Area Wire	less
	2.222		2000	1 modely	200000		INGIWOINS	

+0400C	Annlication	Patent		Country	Application	<b>Grant</b> Date	Title
Number	Number	Number	Owner	Name	Date		System and Method for
							Wide-Area Wireless
			AT&T Wireless	United States	20-Dec-02		System and Method for
368.US	-321138			Patent			Content Delivery Using
•				Cooperation			Wireless Network
669.PCT	PCT/US03/33593		AT&T Wireless	Treaty	23-Oct-03		System and Method for
			4		30		Alternate Data Paths in a Wireless Network
99.US	10/324613		AT&T Wireless	United States	Z0-D9C-0Z		System and Method for
				Patent Cooperation	23 04-03		Integrated Wireless Networks
670.PCT	PCT/US03/33594		AT&T Wireless	reary	20-20-67		System and Method for
							Integrated Wireless
	. !		AT&T Wireless	United States	20-Dec-02		Improved Delivery of
670.US	10/324667			1 Inited States	02-Jan-03		Network Services
679.US	2428042		A1&1 Wireless	Ollifo Collifo			Improved Delivery of
	-		AT&T Wireless	United States	02-Jan-03		Improved Delivery of
680.US	2428/13			1 Inited States	02-Jan-03		Network Services
681.US	2578888		A I & I WITELESS			<u> </u>	Improved Delivery of
682.US	2574139		AT&T Wireless	United States	02-Jan-03		Nework Services
		<del></del>		Soloto Poticia	07-Anr-03		Improved Delivery of Network Services
685.US	10/410662		AT&T Wireless	Ollifed Oraces	07. Apr03		Improved Delivery of Network Services
. S0.989	10/410663		AT&T Wireless	United States	20-10-10-10-10-10-10-10-10-10-10-10-10-10		One Button Access to
·			Pades Wireles	United States	07-Jul-03		Network Services from a Remote Control Device
SO.08	10/612970		0000				Automatic Device Configuration to Receive
691.US	2006188		AT&T Wireless	United States	15-Sep-03	_	Identification of SIM Based
691.US.CP1	10/833412		AT&T Wireless	United States	27-Apr-04		Device

16-Jun-03 Device and Method for Improved Text Entry on an Alphanimeric Keypad
16-Jun-03
16-Jun-03
United States
AT&T Wireless

						Cront	
Docket	Application	Patent		Country	Application Date	Date	Title
Number	Number	Number	Owie				Communications System
							Vertical Adaptive Antenna
			•				Array for a Discrete Multitone Soread Spectrum
					20- hil-04		Communications System
701.US.C1(6)	mailed		AT&T Wireless	United States	20.00.07		Method for Frequency
	,					00. Apr02	Division Duplex
702 CA	2278852	2278852	AT&T Wireless	Canada	03-rep-90	20-100-20	Method for Frequency
				European Patent			Division Duplex
703 EDC	98908475.1		AT&T Wireless	Convention	03-Feb-98		Method for Frequency
102.57					•		Division Duplex
!			AT&T Wireless	Japan	03-Feb-98		Communications
702.JP	10-534899						Method for riedgests
				Mosico	03-Feb-98	02-Aug-02	Communications
702.MX	997160	209442	AT&I Wireless	INIGALIOO			Method for Frequency
							Division Duplex
202116	08/706584	5933421	AT&T Wireless	United States	06-Feb-97	03-Aug-99	Method for Frequency
/02.03	10000						Division Duplex
				United States	19-Apr-99	06-May-03	Communications
702.US.C1	09/294174	6260209	Al&I Wireless	Ollifed Otalog			Method for Frequency
							Division Duplex
			ATRT Wireless	United States	07-Mar-03		Communications
702.US.C1(1)	10/383976		2000			,	Remote Wireless Unit
			-		06 Ect 07	04-101-00	Operating Mode
203 118	08/796586	6085114	AT&T Wireless	United States	16-08-100		Remote Wireless Unit
							Having Reduced Power
			ATPT Mirelace	United States	30-Dec-98	04-Apr-00	Operating Mode
703.US.D1	09/222895	6047200	Alai Wiididaa				Out of Channel Cyclic
							Redundancy Code Method
			-				Description Discrete Months
				•	4	04.002.03	Communications System
704 CA	2281818	2281818	AT&T Wireless	Canada	24-1-60-90	20-10	Out of Channel Cyclic
							Redundancy Code Method
							for a Discrete Multitone
	· ——			European Patent	6		Spread Spectrum Communications System
704 EPC	98911401.2		AT&T Wireless	Convention	24-ren-so		

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
704.MX	997730	209008	AT&T Wireless	Mexico	24-Feb-98	17-Jul-02	Out of Channel Cyclic Redundancy Code Method for a Discrete Multitone Spread Spectrum Communications System
705.US	08/803833	5896425	AT&T Wireless	United States	24-Feb-97	20-Apr-99	Non-Uniformly Spaced Tones for Synchronization Waveform
707.US	08/806508	5864543	AT&T Wireless	United States	24-Feb-97	26-Jan-99	Transmit/Receive Compensation
707.US.C1	09/095748	6175555	AT&T Wireless	United States	11-Jun-98	16-Jan-01	Transmit/Receive Compensation
							Method for Linearization of RF Transmission Electronics Using Baseband Pre-Distortion in T/R Compensation Pilot
700.03	US/8U4013	38/2814	Ala Wieless	United States	24-180-5/ 24 Eab 07	14.000.00	Method for Gaining Access to a Shared Medium Which Improves Over the Slotted
710.US	08/804614	5889814	AT&T Wireless	United States	24-Feb-97	30-Mar-99	Transmit/Receive Compensation for a Dual FDD/TDD Architecture
711.US	08/803832	5909641	AT&T Wireless	United States	24-Feb-97	01-Jun-99	Transmit/Receive Switch
713118	08/804616	5023700	AT&T Wireless	United States	24-Feb-97	13-101-99	Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications System
713.US.C1	09/999048		AT&T Wireless	United States	15-Nov-01		Adaptive Weight Update Method and System for a Discrete Multitone Spread Spectrum Communications System
713.US.C2	09/299079	6160839	AT&T Wireless	United States	26-Apr-99	12-Dec-00	Adaptive Weight Update Method for a Discrete Multitone Spread Spectrum Communications System

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Adaptive Weight Update
							Method and System for a Discrete Multitone Spread
							Spectrum Communications
			AT&T Wireless	United States	31-Oct-00	18-Jun-02	System
713.US.C2C1	09/699361	6408016	Algi viicios				Inventory Pipeline
•		2004200	AT&T Wireless	United States	01-May-97	16-Mar-99	Management System
715.US	-646995	2004300					FUU Forward Link
							Beamforming Method for a   FDD Communications
				choose	23.Feb-99	31-Dec-02	System
717.CA	2262358	2262358	AT&T Wireless	Carrana	22 22 23		FDD Forward Link
		<del> </del>					Beamforming Method for a
				European Patent		70	FDD Communications
000	00301378 8	940934	AT&T Wireless	Convention	25-Feb-99	04-Aug-04	FDD Forward Link
/1/.EPC	0.01010000						Beamforming Method for a
				_		,	FDD Communications
			AT&T \Alirelace	United States	05-Mar-98	17-Oct-00	System
717.US	09/035286	6134261	AIGI MIIGIGSS				Near-Optimal Low-
							Complexity Decoding of
							Space-Time Codes for
					-	00	Pixed Wileless
		2005.161	AT&T Wireless	Canada	10-Dec-98	Up-Aug-uz	Applications 1
720.CA	2255464	7255464	2000				Complexity Decoding of
							Space-Time Codes for
							Fixed Wireless
					17-Dec-98		Applications
720.05	69823326.3-08	98124231.6	AT&T Wireless	Germany	25.25		Near-Optimal Low-
							Complexity Decoding of
							Space-Time Codes for
				European Patent			Fixed Wireless
	-	038404	AT&T Wireless	Convention	17-Dec-98	Z1-Apr-04	Nogr-Optimal low-
720.EPC	98124231.0	300134		-			Complexity Decoding of
							Space-Time Codes for
	-			1			Fixed Wireless
				European Patent	47 Dec.08		Applications
720 EPC D1	4009318.9		AT&T Wireless	Convention	2000-1-		Near-Optimal Low-
				-			Complexity Decoding of
		-					Space-Time Codes for
							Fixed Wireless
			AT&T Wireless	France	17-Dec-98		Applications

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
_							Near-Optimal Low-
							Complexity Decoding of
							Fixed Wireles
	98124231.6		AT&T Wireless	Great Britain	17-Dec-98		Annications
							Near-Optimal Low-
							Complexity Decoding of
							Space Time Codes for
						-	Space-1 line Codes for
	9810841		AT&T Wireless	Mexico	16-Dec-98		Applications
							Noar-Ontimalii ou
							Complexity Decoding of
							Space-Time Codes for
	-610075	6188726					Fixed Wireless
		0100/30	A I & I Wireless	United States	21-Apr-98	13-Feb-01	Applications
				-			Near-Optimal Low-
							Complexity Decoding of
		٠					Space-Time Codes for
720.US.C1	09/690542	6470043	AT&T Wireles	I Inited Ctoton			Fixed Wireless
			A WHERES	Orniced States	17-Oct-00	22-Oct-02	Applications
			-				Near-Optimal Low-
							Complexity Decoding of
720118 5444	100000						Space-1 ime Codes for
	10/23440/	6741635	AT&T Wireless	United States	03-Sep-02	25-May-04	Applications
							Near-Optimal Low-
							Complexity Decoding of
							Space-Time Codes for
720.US.C1(2)	10/838553		AT&T Wireless	United States	,04-May-04		Fixed Wireless
							Transmitter Discoits
_							Technique for Wiseland
1	2303388		AT&T Wireless	Canada	31-Aug-98		Communications
							Transmitter Diversity
721.CA.D1	2405875		ATET Wirelass	00000	00		Technique for Wireless
			AIGH WILCHESS	Canada	31-Aug-98		Communications
					•		Transmitter Diversity
	1060-2003		AT&T Wireless	Chile	27-May-03		Communications
	29824763 1	20824783 4	A TO T 18 (1975)				Sender for Wireless
		100	A GUI VIII GIGSS	Germany	31-Aug-98	13-Jun-02	Communications
	29824760.7	29824760.7	AT&T Wireless	Germany	31-Aug-98	13. tup.02	Receiver for Wireless
					,	10.001	Communications

Docket         Application         Patent         Country         Application         Grant         Title           Number         Number         Number         Number         Number         System (Wineless)           72,DES         28624761.5         28624761.5         28624761.6         271,DES         13-Jun-02         Electronic Circuit for a Electronic Circuit								
ber         Number         Owner         Number         Owner         Number         Owner         Number         Owner         Number         Owner         Statut-02         Statut-02         Statut-02         Commany         31-Aug-96         13-Jun-02         Commany         Statut-02         Commany         Statut-03         Commany         Statut-03         Commany         Statut-03         Commany         Statut-03         Commany         Statut-03         Commany         Statut-03         Statut-03         Commany	Docket	Application	Patent		Country	Application Date	Grant Date	Title
29824761.5         29824761.5         AT&T Wineless         Germany         31-Aug-36         13-Jun-02         Company           29824762.3         29824762.3         29824762.3         AT&T Wineless         Germany         31-Aug-36         13-Jun-02         Company           1         29824762.3         29824762.3         AT&T Wineless         Germany         31-Aug-36         13-Jun-02         Company           2         29824762.3         AT&T Wineless         Germany         31-Aug-36         13-Jun-02         Company           2         3010810.4         AT&T Wineless         Convention         31-Aug-36         25-Jun-03         Convention           2         3010810.4         AT&T Wineless         France         31-Aug-36         25-Jun-03         Convention           3         3010810.4         AT&T Wineless         France         31-Aug-36         25-Jun-03         Convention           4         3010810.4         AT&T Wineless         Great Britain         31-Aug-36         25-Jun-03         Convention           5         2873         AT&T Wineless         Hong Kong         24-feb-04         Co-Jun-03         Convention           6         2873         AT&T Wineless         United States         07-May-98	Number	Number	Number	Owner	Mallia		60	System for Wireless
Septiment   Sept	690	20824761 5	29824761.5	AT&T Wireless	Germany	31-Aug-98	13-JUN-02	Electronic Circuit for a
29824765.8         AT&T Wireless         Cermany         31-Aug-88         13-Jun-02         Septemany           29824762.3         29824762.3         AT&T Wireless         Germany         31-Aug-88         13-Jun-02         Septemany           1016228         AT&T Wireless         Germany         31-Aug-88         25-Jun-03         Total           1016228         AT&T Wireless         Convention         31-Aug-89         25-Jun-03         Total           1016228         AT&T Wireless         France         31-Aug-89         25-Jun-03         Total           1016228         AT&T Wireless         Hong Kong         24-Fab-04         Total         Total           1016228         AT&T Wireless         Mexico         31-Aug-88         05-Jun-03         Total           1016228         ATAT Wireless         United States         07-Jun-93         10-Jun-03         Total           1016228         ATAT Wi	.DES	2.0.1.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7				24 Aug 08	13-Jun-02	Receiver for Wireless Communications
Separation	1 054	29824765.8	29824765.8	AT&T Wireless	Germany	on-Roy-10		Electronic Circuit for a
29824762.3         20824762.3         AT&T Wireless         Cernany         31-Aug-96         25-Jun-03         Tract of the control of the	1.054				Momoo	31-Aug-98	13-Jun-02	Sender for Wireless Communications
Convention   31-Aug-96   25-Jun-03   1016228   AT&T Wireless   European Patent   31-Aug-96   25-Jun-03   1016229   AT&T Wireless   Convention   31-Aug-96   25-Jun-03   1016229   AT&T Wireless   Convention   31-Aug-96   25-Jun-03   1016229   AT&T Wireless   Convention   31-Aug-96   25-Jun-03   1016229   AT&T Wireless   France   31-Aug-96   25-Jun-03   1016229   AT&T Wireless   Georgia   101-Aug-98   25-Jun-03   1016229   AT&T Wireless   Hong Kong   24-Feb-04   1016229   AT&T Wireless   Hong Kong   24-Feb-04   101-Dec-03   101-Dec-0	1.DE5	29824762.3	29824762.3	AT&T Wireless	Geilliany			Transmitter Diversity
69815669.5         1016228         AT&T Wireless         European Patent         31-Aug-98         25-Jun-03         Track of the convention of the con			,	22010/1917	Germany	31-Aug-98	25-Jun-03	Communications
1016228	1.DE6	69815869.5	1016228	AIGI WIIGIGSS	Toton:			Technique for Wireless
D1         3010810.4         AT&T Wireless         European Patent         31-Aug-98         25-Jun-03         CONvention           D1         3010810.4         AT&T Wireless         France         31-Aug-98         25-Jun-03         Convention           98944605.9         1016228         AT&T Wireless         France         31-Aug-98         25-Jun-03         Convention           880968         1016228         AT&T Wireless         Georgia         10-Jul-03         10-Dec.03         Track           4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         10-Dec.03         Track           2573         AT&T Wireless         United States         07-May-98         06-Feb-01         10-Dec.03           C1         2686604         6175329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         02-Dec-98         22-Aur-03				ATOT Mirelace	Convention	31-Aug-98	25-Jun-03	Communications
Dig	21.EPC	98944605.9	1016228	Alat Wildias	tooto C			Technique for Wireless
10   10   10   10   10   10   10   10					European Paterit	31-Aug-98		Communications
98944605.9         1016228         AT&T Wireless         France         31-Aug-98         25-Jun-03         C           98944605.9         1016228         AT&T Wireless         Great Britiain         31-Aug-98         25-Jun-03         T           880968         PI3127         AT&T Wireless         Georgia         10-Jul-03         10-Dec-03         T           4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         T         T           2573         AT&T Wireless         Mexico         31-Aug-98         06-Feb-01         C           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01         C           2886604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04         C           2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Aur-04         C	21.EPC.D1	3010810.4		AT&T Wireless	COLIVERINOLI	8		Transmitter Diversity
98944605.9         1016228         AT&T Wireless         France         31-Aug-96         25-Jun-03         T           98944605.9         1016228         AT&T Wireless         Great Britain         31-Aug-98         25-Jun-03         T           4101312.5         P13127         AT&T Wireless         Georgia         10-Jul-03         10-Dec-03         T           C         2573         AT&T Wireless         Mexico         31-Aug-98         06-Feb-01         C           S.C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           S.C1(1)         100673567         AT&T Wireless         United States         22-Jun-04         C           S.C1(1)         100673567         AT&T Wireless         United States         22-Jun-04         C           S.C1(1)         100673567         AT&T Wireless         United States         02-Dec-09         10-Aug-04           S.C1(1)         2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03					1	24.419.08	25-Jun-03	Communications
98944605.9         1016228         AT&T Wireless         Great Britain         31-Aug-98         25-Jun-03         C           880968         Pi3127         AT&T Wireless         Georgia         10-Jul-03         10-Dec-03         T           4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         C         C           2573         AT&T Wireless         Mexico         31-Aug-98         C         C           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01         C           3.C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         C         C           5.C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         C         C           5         2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	21.FR	98944605.9	1016228	AT&T Wireless	France	oc-any-10		Transmitter Diversity
98944605.9         1016228         AT&T Wireless         Georgia         10-Jul-03         10-Dec-03         T           880968         P13127         AT&T Wireless         Hong Kong         24-Feb-04         10-Dec-03         T           2573         AT&T Wireless         Mexico         31-Aug-98         06-Feb-01         0           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01         0           5.C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         10-Aug-04         0           5.C1(1)         2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03					diction of	31.410-98	25-Jun-03	Communications
880968         P13127         AT&T Wireless         Georgia         10-Jul-03         10-Dec-03         C           4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         T         T           2573         AT&T Wireless         Mexico         31-Aug-98         06-Feb-01         C           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01         C           C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           C202958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	21.GB	98944605.9	1016228	AT&T Wireless	Great Diliani	200		Transmitter Diversity Technique for Wireless
880968         Pi3127         AT&T Wireless         Cortugia         Cat-Feb-04         T           4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         T           2573         AT&T Wireless         Mexico         31-Aug-98         C           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01           C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C2(11)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           C202958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03						10-hit-03	10-Dec-03	Communications
4101312.5         AT&T Wireless         Hong Kong         24-Feb-04         C           2573         AT&T Wireless         Mexico         31-Aug-98         C           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01           C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	21.GE	880968	PI3127	AT&T Wireless	Georgia			Transmitter Diversity
4101312.5         AT&T Wireless         Hong Kong         247 8D-07         1           2573         AT&T Wireless         Mexico         31-Aug-98         06-Feb-01           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01           C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           C1(1)         2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03					2	24 Eob.04		Communications
2573         AT&T Wireless         Mexico         31-Aug-98         G6-Feb-01           2479512         6185258         AT&T Wireless         United States         07-May-98         06-Feb-01           C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           C2(1)         2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	721.HK	4101312.5		AT&T Wireless	Hong Kong	70- C-1-47		Transmitter Diversity
2573         AT&T Wireless         Mexico         31-Aug-90         G6-Feb-01         G6-Feb-01         G6-Feb-01         G6-Feb-01         G6-Feb-01         G7-May-98         G6-Feb-01         G6-Feb-01         G6-Feb-01         G7-May-98         G6-Feb-01         G6-Feb-01         G7-May-98         G6-Feb-01         G6						90		Technique for Wireless Communications
C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04           C2(2958)         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	721 MX	2573		AT&T Wireless	Mexico	31-Aug-90	-	Transmitter Diversity
C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04           2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03							06 Ech 01	Technique for Wireless
C1 2686604 6775329 AT&T Wireless United States 05-Dec-00 10-Aug-04 10.01(1) 10/873567 AT&T Wireless United States 02-Jun-04 22-Apr-03 22-Apr-03	224 1 10	2479512	6185258	AT&T Wireless	United States	07-May-98	0-09-1-00	Transmitter Diversity
C1         2686604         6775329         AT&T Wireless         United States         05-Dec-00         10-Aug-04           C1(1)         10/873567         AT&T Wireless         United States         22-Jun-04         22-Apr-03           2022958         6553237         AT&T Wireless         United States         02-Dec-98         22-Apr-03	21.03							Technique for Wireless
C1 (1) 10/873567		,		AT&T Wireless	United States	05-Dec-00	10-Aug-04	Communications
C1(1) 10/873567 AT&T Wireless United States 22-Jun-04 2022958 6553237 AT&T Wireless United States 02-Dec-98 22-Apr-03	721.US.C1	2686604	6/12329				<u></u>	Technique for Wireless
.C1(1) 10/873567 AT&T Wireless United States 02-Dec-98 22-Apr-03				AT9T Mireless	United States	22-Jun-04		Communications
2022958   6553237   AT&T Wireless   United States   Uz-Dec-so   12727	721.US.C1(1)	10/873567		2000		80	22-Anr-03	Method and Apparatus for Remote Unit Passivation
	722.US	2022958	6553237	AT&T Wireless	United States	05-080-20	25 14 25	

Docket	Application	Datent		Country	Application	Grant		[
Number	Number	Number	Owner	Name	Date	Date	Title	
							Method for Synchronous Encryption Over a	
723.US	2023689		AT&T Wireless	United States	02-Dec-98		Communication Medium	
						-	Method for Estimating	·
21162	00/557573		A T O T O T O T O	11-it-d Challer	0		Changes in Product Life for	 ō
	03037012		Al & Wireless	United States	25-Apr-00		a Redesigned Product	Т
							Low Complexity Maximum	_
		٠					Likelihood Detection of	
		•					Concatenated Space	
731.CA	2276207	2276207	AT&T Wireless	Canada	16.0~1.08	18 Eab 03	Codes for Wireless	
			5500000	Carrana	06-00-01	10-LED-03	Applications	Т
•	٠						Low Complexity Maximum	
							Likelinood Detection of	
							Concatenated Space	
731.CA.D1	2411286		AT&T Wireless	Canada	16-Oct-98		Applications	
							Low Complexity Maximum	_
							Likelihood Detection of	
							Concatenated Space	
734 EDC				European Patent			Codes for Wireless	
/31.EFC	98933634.5		AT&T Wireless	Convention	16-Oct-98		Applications	_
							Low Complexity Maximum	_
•				-			Likelihood Detection of	_
							Concatenated Space	
731.JP	45962	-	AT&T Wireless	Japan	16-Oct-98		Applications	
							Low Complexity Maximum	T <sub>e</sub>
							Likelihood Detection of	
							Concatenated Space	
704	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					:	Codes for Wireless	
10.45.16	2003-298814		AT&T Wireless	Japan	14-Aug-03		Applications	7
							Low Complexity Maximum	
					-	:	Concitonated Conce	
							Concatenated Space	
731.MX	980966	216468	AT&T Wireless	Mexico	16-Oct-98	19-Sen-03	Codes for Wireless Annlications	
						20.20	Our Complexity, Maximum	T,
			•				Likelihood Detection of	
			•				Concatenated Space	-
							Codes for Wireless	
/31.MX.U1	PA/a/2003/003469		AT&T Wireless	Mexico	21-Apr-03		Applications	
							Low Complexity Maximum Likelihood Detection of	
731.US	09/167422	6501803	AT&T Wireless	United States	06-Oct-98	31-Dec-02	Concatenated Space	
								ĺ

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	OWIE				Codes for Wireless Applications
							Low Complexity Maximum
							Likelihood Detection of
							Codes for Wireless
			000[00]111 + 0 + 0	1 Inited States	03-Dec-01	•	Applications
731.US.D1	1167225		Al&I Wifeless	Ollico Oction			Low Complexity Maximum
			-				Likelihood Detection of
							Concatenated Space
							Codes for Wireless
	10000		AT&T Wireless	United States	30-Dec-02		Applications
731.US.D1C1	1738925						Method for Combining
							Sommunication Beams in a Wireless Communication
				Cotol Challel	30.405.00	23-Apr-02	System
732.US	09/303266	6377783	AT&T Wireless	United States	26-100-00		Method for Combining
							Communication Beams in
							a Wireless Communication
			AT&T Wireless	United States	16-Jan-02		System
732.US.C1	10/046243		200				Method for Location-
211 222	-544696		AT&T Wireless	United States	04-Jun-99		Method for Location-
				I Inited States	14-Sep-04		Based Asset Management
733.US.C1	mailed		Al&i Wireless	Ollifor Ollifor			Method and Apparatus for
				,		70	Vibration and Temperature
734.US	09/311820	6491528	AT&T Wireless	United States	13-May-99	10-Dec-07	Maximim Ratio
			AT9T Mireloce	1 Inited States	17-Sep-98	01-Oct-02	Transmission
735.US	09/156066	0428/40	AIGH WHO COS				Maximum Ratio
735 115 C1	10/177461	· · · · · ·	AT&T Wireless	United States	19-Jun-02		Method for Fror
0.000							Compensation in an OFDM
		-	ATRT Wireless	United States	27-May-99	27-Aug-02	System With Diversity
736.US	09/32145/	0447777					Method for Error
			: :	I Inited Chates	24-hm-02		System With Diversity
736.US.C1	10/176643		AT&T WIREIESS	Ollifed States			Method for Error
		·					Compensation in an OFDM
736 115 (-1/1)	-642186		AT&T Wireless	United States	21-May-04		System With Diversity
10.00.001	200202000		AT&T Wireless	United States	24-Mar-00		
/3/.05	cosesc/80					<u>.</u>	Method for Improving
738.AR	102506		AT&T Wireless	Argentina	23-May-00		Efficiency in a Time
							••

	$\neg$						Τ				-	T			7				7			 ∑	T				for	<u>a</u>			<u>.</u> ق				֓֞֞֝֞֜֞֝֞֜֝֞֜֜֞֝֓֓֓֞֜֜֜֞֜֜֓֓֓֓֓֜֜֜֜֓֓֓֓֓֡֜֜֜֡֓֡֓֡֓֜֝֓֡֓֡֡֡֡֡			٠.	]
	0)	<b>.</b>	oving ime	٧	oving	ë L	ovivo	ille ille	اح	oving	ine	<u>.</u>	oving .	e .	٧.	Automatic Gain Control	Methods and Apparatus	Suitable for Use in OFDM		Automatic Gain Control	Methods and Apparatus	Sultable for Use in OFUM		Automatic Gain Control	Methods and Apparatus Suitable for Use in OFDM		Methods and Apparatus for	Use in Reducing Residual	OFDM	Communication Signals	Methods and Apparatus for	Use in Reducing Residual		Communication Signals	Methods and Apparatus for	Use in Reducing Residual Dhase Error in OFDM	Communication Signals	-sso	Ween a
	Title	Networl	for limpr xy in a T	Networl	for Impr	y in a T	for Impr	y in a T	Networ	for linp	cy in a T	Networ	for Impr	cy in a	Networ	tic Gain	s and A	o for Use	S	tic Gain	s and A	5 TO 10 Se		tic Gain	s and Ap	SIS	s and A	Reducin	Phase Error in OFDM	inication	s and A	Ose in Reducing Resid			s and A	Use in Reducing Resid	nication	Detection of Cross-	Connection between a
		Sharing Network	Method for Improving Efficiency in a Time	Sharing Network	Method for Improving	Efficiency in a Time Sharing Network	Method for Improving	Efficiency in a Time	Sharing Network	Method for Improving	Efficiency In a Time	Sharing Network	Method for Improving	Efficiency in a Time	Sharing Network	Automa	Method	Suitable	Receivers	Automa	Method	Sultable 10 Receivers	1000	Automa	Method	Receivers	Method	Use in F	Phase E	Commun	Method	Ose in a	Tridos C		Method	OSe in a	Commu	Detection	
<u> </u>		<u> </u>			_		$\dagger$				<u> </u>								_			<u>.</u>	1											1				•	1
Grant	Date					09-0-03		. •										;	26-Mar-02			03- km-03	2000													· .			
					_	.—	-											<del></del>		-			1											1					
Application	Date			-00		Ş	3		Ş		9	9		5	8			;	8			Ş				63				- -			2	5			9	2	ā
App	_			18-May-00		18-May-00	2		16-May-00			24-May-00		;	11-Apr-00				09-Jun-00			17- lan-02				14-Apr-03				25-Mar-03			7.7	ro-Bny-67	:		25-Sep-00		02-rep-01
<u> </u>	-							atent							SS				Se	.•	-	ų	3			es			atent		,			1			S		
Country	Name			-		7	3	European Patent	Convention			8		č	United States			į	United States			Inited States	Scale			United States			European Patent	Convention	5	Copperation	בוסום הקלי קיים מוסלים	EI EI			United States		Argentina
0				Brazil		Canada		Euro	ပ်			Mexico		:					Chiit				5			- Cniţ	_	ı	E E	S	Datont		3 1	l reaty		:	5	•	AIG.
	ĭ			SS		g.	2		SS			SS			SS				SS			0	2			SS				SS				SS			SS		SS
	Owner			AT&T Wireless		AT&T Wireles			AT&T Wireless			AT&T Wireless			AT&T Wireless				AT&T Wireless			AT&T Wireless	AVIICIE			AT&T Wireless				AT&T Wireless				AI&I WIreless			AT&T Wireless		A I & I Wireless
			ļ 	AT&1	_	ATR	5		AT&			AT&			AT8				AT8			V 18	Š			AT8	_			AT&	_		-	A			AT&		Ala
#	er	·   								•																				٠									
Patent	Number		ŧ				3												127			200	727														٠		
			· 			2208063				-		•			_		<u>.                                    </u>		6363127			6574202	3				_				_								_
tion	er																																	6621			•		
Application	Number					262	3	٠	97.1	·			· .		09/546794				185			10/051714	*			10/414576				1964443.4				PCT/US01/26621			09/670286		10100520
Ą	_			75120		2308063			110197.1		-	5014			09/54				-248485			10/05				10/41				1964	 		. i				.9/60		1010
cet	ber				ļ ,																	<del>,</del>	<u> </u>			:13						٠							
Docket	Number			738.BR		738 CA			738.EPC		2	738.MX		;	738.US				744.US			744 110 04	2.55			744.US.C1(1)				745.EPC				745.PCI			745.US		747.AR
			1	7	l	,	1		~		i	$\leq$		ì	<u> </u>				7			7	1			7	L			_	L		-				7	<u>'</u>	٦

Docket Num         Applic Num           747.US         09/502655           748.AR1         103102	Application Number 9/502655	Patent Number	Owner	Country	Application Date	Grant Date	Title Wireless Loop Network
1 o o o	lumber 12655	Number	Owner	Malie			Wireless Loop Network
103/5	72655						
	2655						and Another Loop Network
	2655						Detection of Cross-
	2655						Connection Between a
	2655						Wireless Loop Network
	2655						and Another Loop Network
	2655				00 40	-	at a Subscriber's Premises
	2002		AT&T Wireless	United States	00-091-11		Apparatus and Method for
							Synchronization in a
							Multiple-Carrier
							Communication System by
							Observing a Plurality of
				1	24_hm_00		Synchronization Indicators
	_		AT&T Wireless	Argentina	Z1-2011-02		Apparatus and Method for
							Synchronization in a
							Multiple-Carrier
							Communication System by
							Observing Energy Within a
····					00-21-1		Guard Band
20406	901		AT&T Wireless	Argentina	20-1100-12		System and Method for
/48.AK2	20						Synchronization in a
							Multiple Carrier
					-		Communication System by
	•				-		Observing a Phase-
							Frequency Relationship of
-				•	24 110 00	_	a Plurality of Pilot Signals
102108	105		AT&T Wireless	Argentina	20-1102-12		Apparatus and Method for
748.AR3	202						Synchronization in a
				-		-	Multiple-Carrier
	•					•	Communication System by
				-			Observing a Plurality of
					44 110 00		Synchronization Indicators
7401101	544822		AT&T Wireless	United States	20-100-11		Apparatus and Method for
			<u> </u>				Synchronization in a
_				-			Multiple-Carrier
							Communication System by
					•		Observing Epergy Within a
						,	Guard
			ATPT Wireless	United States	14-Jun-00	14-May-02	Band
748.US2 630	630289	6389087	ATOLINATIONS				Apparatus and Meurou ros
							Multiple-Carrier
				acted O Laster	44_1,00		Communication System by
740 1103	GEEOR2		AT&T Wireless	United States	00-1100-41		

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant		
						2002	Shirt Charles	
							Coserving a Phase- Frequency Relationship of	
							a Plurality of Pilot Signals	- S
					-		Methods and Apparatus for	jo
							Use in Obtaining	
							Frequency Synchronization	tion
749.AR	103104		AT&T Wireless	Argontino	30		In an OFDM	
			אווימופסס	Dimina Dimina Dimina	00-Unr-17		Communication System	
		٠.		_			Methods and Apparatus for	s for
				Patent			Use in Obtaining	
740 DCT				Cooperation			Frequency Synchronization in an OFDM	
0.61	PC1/US00/40232		AT&T Wireless	Treaty	15-Jun-00		Communication System	
					-		Methods and Apparatus for	ō
							Use in Obtaining	
				-			Frequency Synchronization	tion
749.US	1155142	6768714	AT&T Wireless	United States	14. 11.0.00	27 14 04	in an OFDM	
				2000	OC-INC-LI	40-Inc-17	Communication System	
			-				Methods and Apparatus for	ō
	•						Use in Obtaining	
750 110							in an OEDM	
130.03	1156603	6700866	AT&T Wireless	United States	14~Jun-00	02-Mar-04	Communication System	
	٠.						Methods and Apparatus for	Į
				, taota			Use in Obtaining Frame	
			•	Conoration			Synchronization in an	
751.PCT	PCT/US01/15891		ATPT Windless	Tooperation			OFDM Communication	
			O G I VVIIGIGESS	reary	16-May-01		System	٦
	-						Methods and Apparatus for	ō
	,			٠.			Synchronization in an	
751118	450050						OFDM Communication	
	10000		A I & I Wireless	United States	13-Jun-00		System	
				•			Method and Apparatus for	ō
٠.							Use in Reducing Traffic	
		,			-	:	Over a Communication	
752.AR1	103100		AT&T Wireless	Argentina	21-Jun-00		Link Used by a Computer	<u> </u>
							Povomo Tunnellas	T
		•		Patent			Methods and Apparatus for	
752.PCT2	PCT/US00/16432		AT&T Wireless	Cooperation	14. hm.00		Use With Private Computer	ē.
							Networks	
752.US1.D1	10/120710		AT&T Wireless	United States	11-Apr-02		Methods and Apparatus for Use in Reducing Traffic	<u></u>
							2	7

Docket	Application	Patent		Country	Application	Grant	Title
Number	Number	Number	Owner	Маше	Date		Over a Communication
							Link Used by a Computer Network
	-						Methods and Apparatus for
							Voice and High Speed
							Data in a Wireless
				1	24. hin.00		Communication System
75.4 AR	103103		AT&T Wireless	Argenuna	20-1100-12		Method and Apparatus for
10:50							Use in Communicating
				Patent		· — •	Voice and riight speed
				Cooperation	00 64		Communication System
TOUTS	DCT// ISON/16700		AT&T Wireless	Treaty	13-3un-00		Methods and Apparatus for
2							Use in Communicating
							Voice and right speed
٠				:	90		Communication System
9	4000408		AT&T Wireless	United States	14-Jun-00		System and Method for
754.05	1002103						Data Scrambiling to
							Reduce the Crest Factor in
				Amontina	20-Jun-00		an OFDM Waveform
755.AR	103064		AT&T Wireless	Aigennia			System and Method for
							Data Scrampling to
				European Patent			SOUCE THE CLESS I SCICE TO
		· <u>·</u>	AT&T Wireless	Convention	00-Jun-60		System and Method for
755.EPC	938236.7			4			Data Scrambling to
				Patent			Reduce the Crest Factor in
				Cooperation	no. hip.00		an OFDM Waveform
755 PCT	PCT/US00/15836		AT&T Wireless	reary			System and Method for
101:00							Data Scrambling to
						-	Reduce the Crest Factor
		. 6705050	AT&T Wireless	United States	08-Jun-00	31-Aug-04	System and Method for
755.US	-627971	070070					Data Scrambling to
							Reduce the Crest Factor in
				7	20 000-04		an OFDM Waveform
755.US1	mailed		AT&T Wireless	United States	to-Ray-oc		Design for Scalable
							Network Management
9	400067	· ————————————————————————————————————	AT&T Wireless	Argentina	15-Jun-00	-	System and Method for
790.V	10070				22	06-Feb-03	Checking Service Availability
VT.092	89112312	163403	AT&T Wireless	Iaiwan	00-inc-27		
					¥		

													• • •
T +i +i	System and Method for Checking Service Availability	Intelligent Presentation Network Management Systems	Session Subscription System and Method for	Session Subscription System and Method for Same	Subscription-Based Billing Methods and Systems for Shared Network Modem Pools	Subscription Based Billing Methods and Systems for Shared Network Modem Pools	Synchronization of Encryption in a Wireless Communication System						
Grant	03-Sep-02												
Application Date	17-May-00	24-Feb-00	20-Dec-00	16-Nov-00	20-Dec-00	20-Dec-00	30-Dec-99	22-Dec-00	21-Dec-00	27-Oct-00	20-Dec-00	20-Sep-00	19-Dec-01
Country	United States	United States	Brazil	Canada	European Patent Convention	Mexico	United States	Argentina	Brazil	European Patent Convention	Mexico	United States	United States
Owner	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless	AT&T Wireless
Patent Number	6445912						·				.·		
Application Number	09/572144	09/511168	0005942-0	2326572	311492.3	12896	09/474839	106901	0006220-0	309465.3	12898	09/665780	10/028573
Docket Number	760.US	761.US	765.BR	765.CA	765.EPC	765.MX	765.US	768.AR	768.BR	768.EPC	768.MX	768.US	769.US

10000					Ammilootion	Grant	
***		10000		Country	Application		•
Docker	Application	Patent	Owner	Name	Date	Date	Title
Number	Number	Number	CWIIGI				Data Link Layer Tunneling
							Technique for High Speed
					24 Oct-00	24-Feb-04	Environment
770.US	09/694943	6697983	AT&T Wireless	United States	2000-17		Data Link Layer Tunneling
							Technique for High Speed
							Data in a Noisy Wireless
				Linited States	28-Jan-04		Environment
770.US.C1	10/767246		Al&I WIREESS	Ollifor Odice			Medium Access Dynamic
							Congestion Control
							Mechanism for Wireless
				United States	21-Dec-00	20-Jul-04	Data
772.US1	09/745216	6765869	Al&I Wireless	OTHER CHARLE			Medium Access Dynamic
							Congestion Control
	-				0	20. hd-04	Data
	00/745210	6765870	AT&T Wireless	United States	Z1-Dec-00	-0-inc-02	Collision-Free Multiple
172.032	09/745/19	2 1000 10					Acres Reservation
				tuoto C			Scheme for Multi-Tone
				European ratem	11,002,00		Modulation Links
775 FPC	311028.5		AT&T Wireless	Convention	00-00-11		Collision-Free Multiple
,							Access Reservation
				-			Scheme for Multi-Tone
		-	ATOT Miroloss	United States	18-Jul-00		Modulation Links
775.US	09/618653		Algi Wileless	Composition of the composition o			Method and Apparatus for
							Efficient Sharing of
							Communication System
			ATRT Mireless	United States	28-Nov-00		Resources
778.US	228522		AIGH WIEGESS				Method and Apparatus for
							Commission System
							Besources
10010	Tolice L		AT&T Wireless	United States	19-Aug-04		A Real-Time System for
178.03.01							Measuring the Ricean K-
					08-Eeb-01		Factor
779.AR	10100580		AT&T Wireless	Argentina	200		A Real-Time System for
				Falein			Meseuring the Ricean K-
				Cooperation	07 Eeb 01		Factor
779.PCT	PCT/US01/03854		AT&T Wireless	Ireaty	200		System and Method for
		• •	•	:			Providing Service Provider
				-			Choice Over a riigh-speed
781.US	10/036315		AT&T Wireless	United States	26-Dec-01		Cata Collinación
24 001	40400050		AT&T Wireless	Argentina	13-Jul-01		Adaptive Dual-Polarization

Docket	Application	Patent		Country	Application	Grant	
Number	Number	Number	Owner	Name	Date	Date	Title
							Communication of
		•					Ormogonal Prequency Division Multiplexed Signal
				Patent			
				Cooperation			Multicarrier Transmission
782.PCT	PCT/US01/18993		AT&T Wireless	Treaty	13-Jun-01		Using Polarized Antennae
							Adaptive Dual-Polarization
							Communication of
						•	Orthogonal Frequency
782.US1	09/616128		AT&T Wireless	United States	14-,101-00		Signals
							Transmit Power Control for
					-		an OFDM-Based Wireless
784.US	2665785		AT&T Wireless	United States	28-Feb-01		Communication System
				,			Method for Shared
			•				Network Modern Dialup
•		•					Intranet Access Over a
706110	030000			Cotact O Least 1	7		Wireless Network Using
100,00	09/6/ 9330		A I & I WIREIESS	Onlied States	12-JUI-01		Trron
·							Method of Determining RF
			•	•			Coverage Area in a Point-
287 115	00/874570	-	ATPT Missions	I Inited States	, 10 or 1	•	Service Hallstills of
20.10	03/07+370		Atal Wireless	Office Oraces	no-inn-co		System
					•		Method for Providing
							I ransparent Public
780 48	10102824		AT2T Wireless	Argenting	12. him.01		Mithin Drivate Networks
2000	10102024		A I WILCIGOS	VI BOILLING	25020		Mothed for Deciding
						•	Transparent Public
							Addressed Networks
789.MY	Pi20012764		AT&T Wireless	Malaysia	13-Jun-01		Within Private Networks
							Method for Providing
							Transparent Public
	. 1						Addressed Networks
789.TW	90113964		AT&T Wireless	Taiwan	18-Oct-01		Within Private Networks
	-						Method for Providing
		•					Transparent Public
			:				Addressed Networks
789.US	722695	•	AT&T Wireless	United States	28-Nov-00		Within Private Networks
						: ·	Method for Estimating
							Changes in Product Life
Si1.662	972008/60		AT&T Wireless	United States	06-Jul-01		Using Exponential
	2::222:22		2000				

	ber 0 0	lication umber 777 555	Patent Number	Owner	Country	Application Date	Grant Date	Title
Number   N	lper 0 0	1mber 777 1555	Number	Owner				
O9/90777		777						Acceleration Model
100627192		777						Method for Estimating
10627192		777			•			Resulting From HALT
10627192   AT&T Wireless   United States   11-Jun-01   To		555						Using Quadratic
100627192   AT&T Wireless   United States   11-Jun-01   50						06-Jul-01		Acceleration Model
10/627192   AT&T Wireless   United States   11-Jun-01   Far Process		555		AT&I Wireless				Turbo Channel Estimation
10/627192   AT&T Wireless   United States   24-Jul-03   Properties   AT&T Wireless   United States   25-Jul-02   Properties   AT&T Wireless   United States   25-Jul-02   Properties   AT&T Wireless   United States   AT&T Wireless   United States   AT&T Wireless   AT&T Wireless   United States   AT&T Wireless   AT&T Wireless   United States   AT&T Wireless   AT&T		555			I Inited States	11-Jun-01		for OFDM Systems
10/627192				AT&T Wireless	Ollifeu Grafes			System and Method of
10627192								Assigning Priority to
10/627192   10/627192   10/1640   19/1033		_						Free Multiple Access
10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/627192   10/6271929292   10/6271929292						60 77		Protocol
September   Convertion   Conv				AT&T Wireless	United States	24-Jul-03		System and Method of
Mailed   AT&T Wireless   United States   25-Jul-02   Properation   19-May-04   Mailed   Mai		192						Assigning Priority to
Mailed   AT&T Wireless   United States   25-Jul-02   Proper								Remote Units in a Collision
Mailed   AT&T Wireless   United States   25-Jul-02   Properation   19-May-04   Order of the companies   19-May-04   Orde								Free Multiple Access
Mailed   AT&T Wireless   Convention   19-May-04   Old					I Inited States	25-Jul-02		Protocol
mailed		9042		AT&T Wireless	Collect Orders			Method for Synchronization
Table					European Patern	10.Mav-04		of Received Signals
4628         AT&T Wireless         United States         22-Oct-01         No.           T         PCT/US03/08721         AT&T Wireless         Treaty         21-Mar-03         Vo.           10/116160         AT&T Wireless         United States         05-Apr-02         Vo.           -374098         AT&T Wireless         United States         24-Apr-02         Cooperation           AT&T Wireless         Treaty         AT&T Wireless         Treaty         ATAPPOD				AT&T Wireless	COUVEILION	- Country		Time Synchronization
4628         AT&T Wireless         United States         22-Oct-01         S           T         PCT/US03/08721         AT&T Wireless         Treaty         21-Mar-03         V           T         10/116160         AT&T Wireless         United States         05-Apr-02         V           S         -374098         AT&T Wireless         United States         24-Apr-02         V           Cooperation         AT&T Wireless         United States         24-Apr-02         V           AT&T Wireless         Treaty         30-Apr-02         V								Method for Method OFDM
4628					1 Inited States	22-Oct-01		Signal
Patent   Cooperation   Coope				AT&I WIREIESS	Olinea Orang			A Real-Time Rate Control
PCT/US03/08721					Patent			Mechanism for Multi-Rate
PCT/US03/08721 AT&T Wireless Treaty 21-Mar-03  10/116160 AT&T Wireless United States 05-Apr-02  -374098 AT&T Wireless United States 24-Apr-02  Cooperation 30-Apr-02  Treaty 21-Mar-03	-				Cooperation			Data Transmissions in
### PCT/US03/08/21  10/116160  AT&T Wireless  United States  24-Apr-02  AT&T Wireless  United States  24-Apr-02  Cooperation  30-Apr-02  Treaty				AT&T Wireless	Treaty	21-Mar-03		A Dool-Time Rate Control
10/116160  AT&T Wireless United States 05-Apr-02  AT&T Wireless United States 24-Apr-02  Cooperation 30-Apr-02  Treaty Treaty		US03/08/21						Mechanism for Multi-Rate
10/116160         AT&T Wireless         United States         05-Apr-02         V           -374098         AT&T Wireless         United States         24-Apr-02         V           Cooperation         30-Apr-02         V								Data Transmissions in
10/116160  AT&T Wireless United States United States United States 24-Apr-02  Patent Cooperation 30-Apr-02  Treaty Treaty				-		05 Ans 02		Wireless Networks
-374098  AT&T Wireless United States 24-Apr-02  Patent Cooperation 30-Apr-02		16160		AT&T Wireless	United States	03-Min-02		System and Method for
-374098 AT&T Wireless United States 24-Apr-02 Patent Cooperation 30-Apr-02	1	2010						Channel Assignment With
-374098 AT&T Wireless United States 24-Apr-02 Patent Cooperation 30-Apr-02								Adaptive Modulation in
-374098 AT&T Wireless United States 27797-32  Patent Cooperation 30-Apr-02				•	1 Lated Ototon	24.Anr.02		Wireless Communications
Patent Cooperation ATRI Wireless Treaty		980		AT&T Wireless	United States	22.100.17		Multi-Service Network
Cooperation 30-Apr-02							-	Interface Apparatus for
Cooperation 30-Apr-02					Patent			Frequency-Division
ATRIT Wireless Treaty 30-Apr-02					Cooperation			Multiplexed
				ATET Wireless	Treaty	30-Apr-02		Communications Systems

Docket	Application	Patent	(	Country	Application	Grant		
Number	Number	Number	Owner	Name	Date	Date	Title	
							Multi-Service Network	
		_	•				Interface Apparatus for	
							Frequency-Division	
819.US.D1	09/879358	6687374	AT&T Mireless	I Inited Ctatos			Multiplexed	
		1000	A I WHICHOS	Chilled Oldies	10-400-21	03-r-eb-04	Communications Systems	
							Prepaid Calling Time	
							Processing: A Method and	
-							Apparatus for Processing	
							Pre-Paid Calling Time in a	
852115	00/578034	6707001					Telephone Communication	
	10001000	0101034	A I & I WIFEIESS	United States	24-May-00	16-Mar-04	System	
							Prepaid Calling Time	
							Processing: A Method and	
							Apparatus for Processing	
							Pre-Paid Calling Time in a	
852 LIS C1	10/761673					•	Telephone Communication	
20000	2/016/701		A I & I Wireless	United States	05-Jan-04		System	
053110	70,01						Network Protocol	
933,03	7,0010892		AT&T Wireless	United States	07-Jul-03	٠	Converter	
			-		•		Integration of Wireless and	
011720							External Computing	
024.03	1964915		AT&T Wireless	United States	15-Sep-03		Devices	
							HTTP-Based Application	
856115	10/773555			11-11-10			Fingerprinting by HTTP	
20000	10/1/3333		A I & I WIreless	United States	05-Feb-04		Proxy	
			•				Terminal Device IP	
857.US	1971125		AT&T Wireless	United States	15-Sep-03		Address Authentication	
311690	0700007						Location Announcement	
002.03	010000010		AT&T Wireless	United States	14-Oct-03		for Mobile Devices	
							Method, System and	
							Apparatus for Providing	
BR3D IIC	60/620073	•			;		Wireless Identification to	
20. 1000	00/02000		A I & I Wireless	United States	15-Nov-03		Standard Telephone	
							Providing Location	
٠.							Information for Wireless	
874115	10/606611						Devices Using Name	
20.10	10/0000014		Al&I Wireless	United States	14-Oct-03		Service	
			•		•		Distributed Handling of	
811 dp 78	60/543052	-		1 -10 1 -11-11			Information Directed to a	
20: 0:0	0000000		Al & I Wireless	United States	11-Feb-04		Wireless Device	
		-					Method and Apparatus for	
880.US	10/776507		AT&T Wireless	I Inited States	12.Eab.04		Providing Quality of	
		T	7141 11161666	חווופה סימופס	ול-רפט-טיי		Service I nrougn muliple	

			-		2019-0	Grant	
Docket	Application	Patent		Country	Application	Date	Title
Number	Number	Number	Owner	Name			Carrier IP Networks
							System and Method for Planning and Operating a
							Telecommunications
			A TOT Misologe	United States	25-Mar-04		Network
883P.US	60/557153		Algi Wiidida				l erminal-Based Server to
0	7010		AT&T Wireless	United States	24-Sep-04		Sharing Content on Mobile
886.03	maneo			Listed Chatee	09.Apr-04		Devices
887.US	10/821608		AT&T Wireless	Onlied States			System and Method for
			1	1 Inited States	20-Mav-04		Voice Recognition Using User Location Information
888.US	mailed		AT&T Wireless	Olineo Olares			Spam Control for Share
311 300	10/822187		AT&T Wireless	United States	09-Apr-04		Identifying A Device to a
889.03	2007		ATOT Wireless	United States	22-Jan-04		Network
894.US	10/763862		Alai Wildias	2			System for Providing
						<u>.</u>	Location-Based Services in a Wireless Network, Such
							as Locating Sets of
			and Minister	1 Inited States	15-Apr-04		Desired Locations
895P.US	60/562785		Alai Wiididə				Personal Base Station with
	!		AT&T Wireless	United States	14-Nov-03		Wireless Video Capability
896P.US	60/519947						User Devices When
							Sharing Content on Mobile
			ATRT Wireless	United States	09-Apr-04		Devices
897.US	10/821325		Algi wildiga		0 - 1 - 1		Reduce Roaming Charges
906.US	10/867957		AT&T Wireless	United States	14-JUN-04		Call Handling Scheme to
			AT&T Wireless	United States	27-Jan-04		Reduce Roaming Charges
SD. A906	60/539780						Controlling the Operation
							of Movable Wireless
	· ¶		AT&T Wireless	United States	13-Sep-04		Method and System for
908.US	maileo						Controlling the Operation
			·				of Movable Wireless
(	00001		AT&T Wireless	United States	05-Mar-04		Customized Signature
908P.US	00/343920			Soloto Patient	30. lin.04		Message Service
915.US	10/881672		AT&T Wireless	United States	- Second		
							-

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Title
921P.US	mailed		AT&T Wireless	United States	19-Aug-04	·	Testing for Mobile Device Locator Systems, Such as for E911 Phase II
922.US	mailed		AT&T Wireless	United States	13-Aug-04		Wireless Device Service Activation from a Wireless Device
925.US	mailed		AT&T Wireless	United States	14-Sep-04		Selection of Bearer Mode According to Message Characteristics
926.US	mailed		AT&T Wireless	United States	14-Sep-04		Maintaining Instant Message Session Status in Dynamic Operating Environments
927P.US	60/588307		AT&T Wireless	United States	15-Jul-04		Using Emoticons, Such as for Wireless Devices
928P.US	60/588110		AT&T Wireless	United States	15-Jul-04		Help Buddy for Instant Messaging on a Wireless Device
929.US	mailed		AT&T Wireless	United States	03-Sep-04		System and Method for Data Organization and Display in an Instant- Messaging Interface
930.US	mailed		AT&T Wireless	United States	14-Sep-04		Dedicated Wireless Device Business Method
930P.US	60/590185		AT&T Wireless	United States	21-Jul-04		Dedicated Wireless Device Business Model
931.US	mailed		AT&T Wireless	United States	10-Sep-04		Always On Mobile IM / Messaging Centric Wireless Device
931P.US	60/590229		AT&T Wireless	United States	21-Jul-04		Always On Mobile IM / Messaging Centric Wireless Device
936.US	mailed		AT&T Wireless/IXI Mobile	United States	20-Sep-04		Mobile Communications Device
237.CA	2231255		AT&T Wireless/Atmel Corp.	Canada	30-Aug-96		Wireless Corhmunication System Having Mobile Stations Establish a Communication Link Through the Base Station

Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Name			Mission Communication
			A1&1 Wireless/Atmel	Canada	30-Aug-96		System
37.CA.D1	2321957		AT&T Wireless/Atmel	European Patent	30.410-96		Wireless Communication System
37.EPC	96946386.8		Согр.	Convenient	200		
			AT&T Wireless/Atmel		30-Aug-96		Wireless Communication System
237.JP	354166		Corp.			i	Wireless Communication
× 14 FC	081827	202428	Wireless/Atmel Corp.	Mexico	30-Aug-96	15-Jun-01	System
VW. 762			AT&T Wireless/Atmel	United States		08-Jun-99	Wireless Communication System
237.US	-44345	5911120	Corp.				
	000000	67.154.3.2	Wireless/Atmel Corp.	United States	04-Nov-98	11-May-04	Cordless Cellular System Mobile Telecommunication
237.US.D1	09/183639						Device and Method Used for Changing Wireless
			AT&T				Communication Between Base Stations of Different
		-	Wireless/Atmel	Canada	30-Aug-96	30-Jul-02	Kinds Mobile Telecommunication
238.CA	2231370	22313/0	, day				Device and Method Used
						<u></u>	for Changing Wireless Communication Between
			AT&T Wireless/Atmel		90-01-0	16-Jan-02	Base Stations of Different Kinds (PBS #3)
238.DE	96940621.4	69618604.7	Согр.	Germany	os-Roy-os		Mobile Telecommunication
							for Changing Wireless
			AT&T	   Furnnean Patent			Base Stations of Different
		000070	Wireless/Aumei Com	Convention	30-Aug-96	16-Jan-02	Mohile Telecommunication
238.EPC	96940621.4	848888					Device and Method Used
			AT&T Windess/Atme	•	,	9	Communication Between Base Stations of Different Kinds (PBS #3)
238 FR	96940621.4	848888	Corp.	France	30-Aug-96	10-Jan-02	
200:11							

Docket	Application	Patent	Š	Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	21184			Mobile Telecommunication
		-		_			Device and Method Used
							for Changing Wireless
			+8+				Communication Between
			Mirelees/Atmel				Base Stations of Different
	1 10000	040000	Villages Auricia	Great Britain	30-Aug-96	16-Jan-02	Kinds (PBS #3)
238.68	90940021.4	040000	ATRT.				A Mobile
			,				Telecommunicating Device
	000771		Wireless/Atmei	lanan.	30-Aug-96		and Method of Operation
238.JP	9-511293		Cap.				Mobile Telecommunication
			•				Device and Method Used
							for Changing Wireless
							Comminication Retween
			AT&T				Dage Stations of Different
			Wireless/Atmel	Movino	30-A110-06	15-lun-01	Kinds
238.MX	981819	202427	Corp.	Mexico	06-80V-06	2 50.5	Mobile Tologommunication
							Dougle Telecommiscation
							Levice and Meniod Osed
							for Changing wireless
			AT&T				Communication Between
			Wireless/Atmel				Base Stations of Different
228 116	-48500	5732360	Com.	United States	08-Sep-95	24-Mar-98	Kinds (PBS #3)
200.00	0000-				-		Centralized
					-		Communications Network
			AT&T	European Patent			Charging Methods and
701	220220		Wireless/Nortel	Convention	11-Feb-03		Apparatus
340.EP.C	3733732						Centralized
-				Patent			Communications Network
			ATRT	Cooperation			Charging Methods and
			Wireless/Mortel	Treaty	11-Feb-03		Apparatus
546.PCT	PC1/US03/04036		AAII GIGGGGGIGI				Centralized
							Communications Network
	-		ATRI				Charging Method and
			Mirelace/Mortel	United States	11-Feb-03		Apparatus
546.US	10/365116		A III dieson force				Telecommunications
			7474				Network Centralized
			Missiose/Mortel	United States	11-Feb-02		Charging System Topology
546P1.US	60/356579		VVII GEGGSS/IVOLICE				
		•	ATET				Payment Methods and
01100075	60/256570		Wireless/Nortel	United States	11-Feb-02		Apparatus
24072.03	0/2020/0						Method for Implementing
	_						Service Logic Via
			AT&T/AT&T				Database Table
456 110	00/406278	-	Wireless	United States	24-Sep-99		Transversals
130.03	2				•		<del></del>

Number Number 468.US 09	Application Number 09/228646	Number	Owner	Name	Date	282	Sales In the local
	9/228646			_			Calling Party Paid Wireless Telecommunication
	9/228646		AT&T/AT&T	United States	12-Jan-99	30-Oct-01	System System
		6311053	Wireless				Nework-Assisted
							Automatic Confirmation of
							Short Message Service
			AT&T/AT&T		06-Nov-01		Delivery
	1818413.8		Wireless	China P.R.			Method and Apparatus for
	0.0413.0						Network-Assisted
							Short Message Service
			AT&T/AT&T	European Patent			Delivery
	10000117		Wireless	Convention	09-NOV-01		Method and Apparatus for
309.ELC							Network-Assisted
				Patent			Short Message Service
			AT&T/AT&T	Cooperation	06-Nov-01		Delivery
	DCT# 1501/47231		Wireless	reary	- Callon		Method and Apparatus for
509.PC	27.1.000101						Network-Assisted
							Short Message Service
			AT&T/AT&T		0.01		Delivery
			Wireless	United States	no-vov-on		William Internet Call
509.US2	PCC110/01		ATPT/ATRT	European Patent			With Service
			Wireless	Convention	12-Jan-01		Methods and Apparatus for
524.EPC	1100127.8		WIICION I				Wireless Auto-
			AT&T/AT&T		44.000.00	·	Conferencing
	12770000		Wireless	United States	2000-11		Methods and Apparatus for
547.US	09//3415/						Wireless Auto-
			AT&T/AT&T	United States	04-Sep-01		TOMA Communication
547.US.C1	09/945868	-	Wileigos		ļ		System Having Enhanced
			AT&T/AT&T	European Patent	0.7 to 0.4		Power Control
1	4442065 7		Wireless	Convention	D-inc-10		TDMA Communication
558.EPC	1112903.7		AT0T/AT2T				System Having Ennanced Power Control
		9037360	Wireless	United States	16-Feb-01	22-3UI-04	Method and System for
558.US	-522416	67.34300					Signaling Presence of
			AT&T/AT&T		7001		Environment
31123	615919		Wireless	United States	U-iviay-U	<u> </u> 	Method and Apparatus for
20,700			AT&T/AT&T	European Patent	1f     06-11m-01		Sharing Wireless Content
577 EDC	1112956.6		Wireless	CONVENION			

											· · ·
Title	Method and Apparatus for Sharing Wireless Content	Progressive Reuse Partitioning for Improved Interference Rejection in Wireless Packet Networks	Progressive Reuse Partitioning for Improved Interference Rejection in Wireless Packet Networks	Method and Apparatus for Controlling Access to a Communication Channel	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Valldating Integrity of Transmitted Data	Apparatus, System and Method for Detecting a Loss of Key Stream Synchronization in a Communication System	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Validating Integrity of Transmitted Data	Apparatus, System and Method for Validating Integrity of Transmitted Data	Airline Telephone Handset With Digital Passenger Control Functions and Video Game Controls
Grant Date				11-Jun-02				·			10-Oct-95
Application Date	09-Mar-01	15-Nov-02	15-Nov-01	04-Sep-98	14-Sep-01	18-Sep-00	15-Feb-01	15-May-02	15-May-02	12-Jun-01	21-Apr-94
Country Name	United States	Canada	United States	United States	Patent Cooperation Treaty	United States	United States	European Patent Convention	Patent Cooperation Treaty	United States	United States
Owner	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	AT&T/AT&T Wireless	Claircom Communications
Patent Number				6404753							D363068
Application Number	09/801635	2411899	1035707	09/148316	PCT/US01/28658	2670533	09/783843	2731814.6	PCT/US02/15451	09/879575	29/021670
Docket Number	572.US	629.CA	629.US	727.US	741.PCT	741.US	742.US	743.EPC	743.PCT	743.US	186.US

							-
Docket	Application	Patent		Country	Application Date	Grant Date	Title
Number	Number	Number	Owner	Маше			Airline Telephone Handset With Digital Passenger
			Claircom	actor of the second	25-Anr-94	23-Jan-96	Control Functions and Video Game Controls
86.US.CP1	29/021800	D366482	Communications	$\dagger$			Airline Telephone Handser With Digital Passenger
			Claircom	Linited States	19-Jun-95	18-Jun-96	Control Functions and Video Game Controls
186.US.D1	29/040119	D370910	Communications	1			Telephone Handset and
٥	08/482288	5652792	Claircom Communications	United States	07-Jun-95	29-Jul-97	Cradle
187.03	201000000000000000000000000000000000000	18022	Claircom Communications	Austria	08-Sep-95	20-Oct-95	Telephone Handset
188.AT	3230/33	77025	Claircom Communications	Canada	07-Sep-95	25-Jan-96	Telephone Handset
188.CA	0881-0881	NOE07234 A	Ctaircom	Germany	07-Sep-95	21-Feb-96	Telephone Handset
188.DE	M9507231.4	F-1021008W	Claircom	France	11-Sep-95	09-Feb-96	Telephone Handset
188.FR	954887	924867	Claircom	Great Britain	08-Sep-95	25-Jan-96	Telephone Handset
188.GB	2050278	2050278	Collination				Tologoo Hander
188.HK	2050278	9900591	Communications	Hong Kong	10-Mar-95	23-Jul-99	reconductions of the control of the
188 KR	16827/1995	192764	Claircom	South Korea	07-Sep-95	03-Feb-97	Telephone Handset
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	051701	59555	Claircom Communications	Sweden	08-Sep-95	05-Jun-96	Telephone Handset
90.35	2050278	2050278	Claircom Communications	Singapore	08-Sep-95	25-Jan-96	Telephone Handset
188.36	200027	D371553	Claircom Communications	United States	10-Mar-95	96-Jul-96	Telephone Handset
188.05	ocan7201 6		Claircom Communications	European Patent Convention	08-Mar-96		Handset in an Armrest Tube Mounted Telephone
203.50	98106849 3	-	Claircom	Hong Kong	26-Jun-98		Handset in an Armrest Tube Mounted Telephone
180 15	2548877	5627891	Claircom Communications	United States	10-Mar-95	06-May-97	Handset in an Armrest
2000							

				<u></u>				
Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title	
191.DE	29580194.8	29580194.8	Claircom Communications	Germany	25-Apr-95	20-Feb-97	Airplane Telephone	
191.JP	527740/95		Claircom Communications	Japan	25-Apr-95		Airplane Telephone	
191.KR	10-1996-705967	10-348946	Claircom Communications	South Korea	25-Apr-95	02-Aug-02	Airplane Telephone	
191.MX	965011		Claircom Communications	Mexico	25-Apr-95		Airplane Telephone	
191.PCT	PCT/US95/04821	95/04821	Claircom Communications	Patent Cooperation Treaty	25-Apr-95	02-Nov-95	Airplane Telephone	
193.US	08/040180	5463678	Claircom Communications	United States	26-Mar-93	31-Oct-95	Credit Card Reader	
195.US	08/040179	5410597	Claircom Communications	United States	26-Mar-93	25-Apr-95	Wired Seat Back Aircraft Telephone Set	craft
196118	08/040178	5394467	Claircom	United States	26-Mar-93	28-Feb-95	Multi-Purpose Telephone Strain Relief	hone
198.US	08/042426	5455964	Claircom Communications	United States	26-Mar-93	03-Oct-95	Stabilization of Frequency and Power in an Airborne Communication System	tem tem
199.US	29/007592	D361568	Claircom Communications	United States	26-Mar-93	22-Aug-95	Airplane Telephone Set	Set
251.US.C1	08/451719	6393281	Claircom Communications	United States	26-May-95	21-May-02	Seamless Hand-Off for Air- To-Ground Systems	f for Air-
259 US. C6C2C2	09/451579		Claircom Communications	United States	30-Nov-99		Multi-Nodal Digital Telephone Distribution System	ro
259.US.C6C4C1	Mailed ·		Claircom Communications	United States	14-Mar-01		Multi-Nodal Digital Telephone Distribution System	uoj.
375.US.C1	09/520806	6449287	Claircom Communications	United States	08-Mar-00	10-Sep-02	Short Messaging Memod and System for Airborne Passengers	emod orme
375.US.C1(1)	10/211929		.Clair.com Communications	United States	02-Aug-02		Short Messaging Method and System for Airborne Passengers	ethod
							•	

Docket         Application Number Number Number         Own           Number         Number Number Number         Own           153.DE         M9409657.3         M9409857.3         Communi			Anniication	Grant	**
Number   N	<u></u>	Country	Date	Date	Title
Mode	1	Name			Wireless Communications
1 861/94 17729 M9409857.3 M6409857.3 MCC Con 17729 CON MCC CON 17730 CON	McCaw Cellular Communications	Germany	14-Dec-94	10-Apr-95	Terminal
861/94   17729   Con     862/94   17730   Con     946994   946994   Con     10940000254   69309   Con     109406/1994   953799   Con     109406/1994   953799   Con     109406/1994   953799   Con     109406/1994   953799   Con     109406/1994   6708226   Con     109406/1994   6708226   Con     109406/1994				20. Sep. 95	Virgiess Colling Terminal
B62/94		Finland	21-Dec-94	22.020.02	
B62/94					Wireless Communications
1	McCaw Cellular Communications	Finland	21-Dec-94	29-Sep-95	Terminal
100   100					Wireless Communications
TO940000254 69309   Mc     10940000254 69309   CC     39446/1994 953799   CC     22 942575 57902   CC     E001 09/944380 6708226   S668993   CC     TE001 08/229526 5668993   CC     TE002 2184368   S724584   CC     TE002 2184368   S724584   CC     TE002 2184368   S724584   CC     TE003 2184368   S724584   CC     TE004 08/698277 S724584   CC     TE005 108/698277   S724584   CC     TE005	McCaw Cellular Communications	France	22-Dec-94	31-Mar-95	Terminal
E.2 39446/1994 953799 CC E.2 3942575 57901 CO E.2 942576 57902 CC TE001 09/944380 6708226 CC TE001 08/868942 6332167 S TE001 08/229526 5668993 S TE002 2184368 S TE002 2184368 S TE002 2184368 S TE003 08/698277 5724584	McCaw Cellular		700.00	20-Apr-00	Wireless Communications Terminal
E.2 942575 57901 CG E.2 942576 57901 CG TE001 09/944380 6708226 CG TE001 08/868942 6332167 SG TE001 08/82932 5668993 SG TE002 2184368 5724584		Italy	75-Dec-37		Wireless Communications
942575 57901 M 942575 57901 Co 942576 57902 C 501 09/944380 6708226 S 501 08/868942 6332167 S 502 2184368 568993 S	McCaw Cellular Communications	Japan	22-Dec-94	26-Feb-96	Terminal
942575 57901 C 942576 57902 C 57902 C			22_Dec-94	05-Jul-95	Wireless Communications Terminal
001 09/944380 6708226 C 001 09/944380 6708226 S 001 08/868942 6332167 S 001 08/229526 5668993 S 002 2184368 5724584		Sweden			
942576         57902         C           301         09/944380         6708226         S           301         08/868942         6332167         T           301         08/868942         5668993         S           302         2184368         S           302         2184368         S           302         2184368         S	McCaw Cellutar		70	05-101-95	Wireless Communications Terminal
T         T           001         09/944380         6708226         S           001         08/868942         6332167         S           001         08/229526         5668993         S           002         2184368         S724584         S	57902 Communications	Sweden	77-Dec-94		
09/944380 6708226 S 08/868942 6332167 S 1 08/229526 5668993 S 2 2184368 5724584	Teleflex Information			16-Mar-04	Multithreaded Batch Processing System
08/66942 6332167 5 08/229526 5668993 5 2 2184368 5724584		United States	04-Sep-01		Multithreaded Batch
08/598277 5724584	Teleflex Information Systems, Inc.	on United States	04-Jun-97	18-Dec-01	Processing System
08/229526 5668993 S				<del></del> -	Multithreaded Batch
2184368 5524584 5724584	Teleflex Information	on United States	19-Apr-94	16-Sep-97	Processing System
2164368 5724584					Method and Apparatus for Processing Discrete Billing
2184368 08/698277 5724584	Teleflex Information	ion Canada	23-Feb-95	\ -\ -\	Events Apparatus for
08/698277 5724584	Systems, inc.	┼			Processing Discrete Billing
08/698277	Teleflex Information	ion United States	19-Apr-94	03-Mar-98	Events
		-	22 Cob 05		Batching Billing System
2001-TE003 2184369 Syste	Systems, Inc.	Canada	25-DB1-67		

Docket Number	Application Number	Patent Number	Owner	Country Name	Application Date	Grant Date	Tite	
2001-TE003	09/938827	6658488	Teleflex Information Systems, Inc.	United States	27-Aug-01	02-Dec-03	No-Reset Option in a Batching Billing System	in a
2001-TE003	09/340384	6282519	Teleflex Information Systems, Inc.	United States	28-Jun-99	28-Aug-01	No-Reset Option in a Batch Billing System	in a Batch
2001-TE003	08/377610	5999916	Teleflex Information Systems, Inc.	United States	25-Jan-95	07-Dec-99	No-Reset Option in a Batching Billing System	in a system
2001-TE003.C1	10/622106	• ,	Teleflex Information Systems, Inc.	United States	17-Jul-03		No-Reset Option in a Batching Billing System	in a system

70932 MAY 0 2 2006 MB N 20651-0027 (exp. 6/30/2005)

U.S.	DEP/	ARTM	ENT	OF	CON	ME	RCE
	[			T		4.0	4

MB N 0651-0027 (exp. 6/30/2005)	United States Patent and Trademark Office
RECORDATION FORM PATENTS	•
To the Director of the U.S. Patent and Trademark Office: Please	e record the attached documents or the new address(es) below.
I. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
AT&T Wireless Services, Inc.	Name: Cingular Wireless II, Inc.
	Internal Address: Suite 1700
Execution Date(s) 5/26/2005	Street Address: 5565 Glenninge Conn.
Additional name(s) of conveying party(ies) attached? Yes 🗹 No	<u> </u>
3. Nature of conveyance:	
Assignment Merger	City: Atlanta
Security Agreement Change of Name	State: Georgia
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: USA Zip:
Other	Additional name(s) & address(es) attached? Yes Vo
	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
See Attached Sheets	
Additional numbers at	tached? Yes No
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 33
Name:Cingular Wireless, LLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$_1320.00
Internal Address: Attn: Linda Giles; #1725A	Authorized to be charged by credit card
memary tourous.	✓ Authorized to be charged to deposit account
Charact Address: EESE Glandage Connector	Enclosed
Street Address: 5565 Glenridge Connector	None required (government interest not affecting title)
	8. Payment Information
City: Atlanta	a. Credit Card Last 4 Numbers
State: Georgia Zip: 30066	Expiration Date
Phone Number: (404) 236-6720	b. Deposit Account Number 50-2450
Fax Number:	Authorized User Name Coulter C. Henry
Email Address: linda.giles@cingular.com	Additionable Cook Training Cooking C. From
9. Signature: Could Colon	5/26/2005
Signature	Date
Coulter C. Henry; Reg. No.: 51,121	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	onest, attachments, and accomments.

Patent Applications Subject to Assignment Cingular Wireless II, Inc. May 26, 2005

10/965,466	10/937,300
11/000,353	11/017,787
11/105,049	11/036,159
11/054,695	
10/933,677	
11/097,459	
10/929,732	
29/213,592	
10/990,106	
10/990,111	
10/990,105	
10/950,034	
10/989,710	
10/940,576	
10/939,103	
10/959,553	
10/990,635	
11/087,390	:
10/943,500	
11/058,103	
11/051,493	
11/022,048	
11/018,780	÷
10/963,838	
11/065,971	
10/984,618	
11/092,511	
11/092,199	Plian
	-CING-0018
10/939,366	

### SECOND AMENDMENT TO PATENT ASSIGNMENT AGREEMENT

This Second Amendment To - PATENT ASSIGNMENT AGREEMENT is made this 26<sup>th</sup> day of May, 2005 and is added to and amends the PATENT ASSIGNMENT AGREEMENT by and between New Cingular Wireless Services, Inc., a Delaware corporation ("Assignor") f/k/a AT&T Wireless Services, Inc. as ASSIGNOR and Cingular Wireless II, Inc., a Delaware corporation as ASSIGNEE, which the Patent Assignment Agreement is dated the 27<sup>th</sup> day of October, 2004.

Schedule A is hereby amended in accordance with the attached additions.

All other provisions in the Patent Assignment Agreement and Schedule A shall remain unchanged and in full force and effect.

[signatures on following pages]

### Executed this 26th day of May, 2005.

Assignor: New Cingular Wireless Services, Inc. f/k/a AT&T Wireless Services, Inc. By: Name: APPROVED Title: Sean Foley Vice President, Treasurer and Corporate Development **COUNTY OF** On this 26th day of May, 2005, before me, a Notary Public in and for the State and County foresaid, personally appeared <u>Sean Italy</u> to be the person above named and an officer of New Cingular Wireless Services, Inc., duly authorized to execute this Assignment Agreement on behalf of New Cingular Wireless Services, Inc., who signed and executed the foregoing instrument on behalf of New Cingular Wireless Services, Inc. Notary Public, Cobb County, Georgia Notary Public My Commission Expires: My Commission Expires March 16, 2008

nda S. Diles

Acknowledged this 26th day of May, 2005.

Assignee: CINGULAR WIRELESS II, INC.

By: Name:

Title:

Sean Foley

Vice President, Treasurer and Corporate Development

APPROVED

ATTORNEY

STATE OF

COUNTY OF

On this 13th day of May, 2005, before me, a Notary Public in and for the State and

County foresaid, personally appeared \_\_\_\_\_\_\_known by me to be the person above named and an officer of Cingular Wireless II, Inc., duly authorized to execute this Assignment Agreement on behalf of Cingular Wireless II, Inc., who signed and executed the foregoing instrument on behalf of Cingular Wireless II, Inc.

Notary Public My Commission Expires:

Linda S. Giles

Notary Public, Cobb County, Georgia My Commission Expires March 16, 2008

## Schedule A (2<sup>nd</sup> Revision)

Docket	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title
917.US	10/965,466		AT&T Wireless	USA	10/13/2004		Adjusting Link Layer Control Frame to Facilitate Data Throughput
504.US.C1	11/000,353		AT&T Wireless	USA	11/29/2004		A Method for Programming a Mobile Statton Using a Permanent Mobile Statton Identifier
606.US.CP1(1)	11/105 049		AT&T Wireless	USA	4/11/2005		Secure Online Purchasing
883.US	11/054.695		AT&T Wireless	USA	2/10/2005		System and Method for a Telecommunications Network
SD 626	10/933.677		AT&T Wireless	USA	9/03/2004		System and Method for Data Organization and Display in an Instant-messaging interface
78211803	11/097 459		AT&T Wireless	USA	4/01/2005		Adaptive Dual-polarization Communication of Orthogonal Frequency Division Multiplexed Signals
755 1164	40/000 730		AT&T Wireless	NSA	8/30/2004		System and method for Data Scrambling to Reduce the Crest Factor in an OFDM Waveform
936.US	29/213,592		AT&T Wireless	USA	20-Sep-2004		MOBILE COMMUNICATIONS DEVICE
٧ - - -	10/090 106		AT&T Wireless	USA	15-Nov-2004	. •	SUBSCRIBER INDENTITY MODULE WITH VIDEO PERMISSIONS
896.US.D1	10/990,111		AT&T Wireless	USA	15-Nov-2004		PERSONAL BASE STATION WITH WIRELESS VIDEO CAPABILITY

## Schedule A (2<sup>nd</sup> Revision)

Docket Number	Application Number	Patent Number	Owner	Country	Application Date	Grant Date	Title
				-			
							METHOD, SYSTEMS AND APPARATUS FOR PROVIDING
863.US	10/990.105		AT&T Wireless	USA	15-Nov-2004		WIRELESS IDEN I FICATION 10 STANDARD TELEPHONE
886.US	10/950.034		AT&T Wireless	USA	24-Sep-2004		A STANDARDS-BASED TERMINAL LOCATION SERVER SOLUTION FOR LOCATION APPLICATIONS
SI 1 883	10/989 710		AT&T Wireless	USA	15-Nov-2004		OVER THE AIR PROGRAMMING/ACTIVATION FOR SIM ENABLED DATA DEVICE
Si 1 080	10/940 576		AT&T Wireless	USA	14-Sep-2004	·	DEDICATED WIRELESS DEVICE BUSINESS MODEL
931 118	10/939 103		AT&T Wireless	USA	10-Sep-2004		ALWAYS ON MOBILE IM / MESSAGING CENTRIC WIRELESS DEVICE
924.US	10/959 553		AT&T Wireless	USA	06-Oct-2004		IMPROVING VOICE QUALITY BASED ON CUSTOMER FEEDBACK
SIIS	10/990 635		AT&T Wireless	USA	17-Nov-2004		Method and System for Providing Location Information for emergency Services
156.US.020(3)	11/087,390		AT&T Wireless	USA	3/22/2005	·	Cyclic Trellis Coded Modulation
490.US.C1	10/943.500		AT&T Wireless	USA	9/17/2004		Methods and Systems for Communicating and Controlling Facsimile Information
577.US.C1	11/058.103		AT&T Wireless	USA	2/14/2005		System and Method for Providing an Adapter Module
577.US1	11/051.493		AT&T Wireless	USA	2/4/2005		System and Method for Providing an Adapter module
702.US.C1(2)	11/022.048		AT&T Wireless	USA	12/22/2004	•	Method for Frequency Division Duplex Communications
731.US.D1C2	11/018,780		AT&T Wireless	USA	12/21/2004		Low complexity Maximum Likelihood Detection of Concatenate space Codes for Wireless Applications

## Schedule A (2<sup>nd</sup> Revision)

Docket	Application	Patent		Country	Application		
Number	Number	Number	Owner	Name	Date	<b>Grant Date</b>	Title
735.US.C1(1)	10/963,838		AT&T Wireless	USA	10/12/2004		Maximum Ratio Transmission
							System and Method for Providing
							Location-based Services in a Wireless
							Network, Such as Providing
							Notification Regarding Meetings,
890.US	11/065,971		AT&T Wireless	NSA	2/24/2005		Destination Arrivals, and the Like
							System for Providing Location-based
							Services in a Wireless Network, Such
895.US.C1	10/984,618		AT&T Wireless	NSA	11/08/2004		as Locating Sets of Desired Locations
							Using Emoticons, Such as for
927.US.C1	11/092,511		AT&T Wireless	NSA	3/28/2005		Wireless Devices
							Customer Service Messaging, Such
928.US.C1	11/092,199		AT&T Wireless	NSA	3/28/2005		as on Mobile Devices
							Method and System for controlling the
							Operation of Movable Wireless
908.US	10/938,569		AT&T Wireless	NSA	9/13/2004		Networks
							Method for Location-Based Asset
733.US.C1	10/939,366		AT&T Wireless	USA	9/14/2004		Management
_							Method and System for Providing
							Data Communication with a Mobile
333.US.C1(1)	10/937,300		AT&T Wireless	USA	9/10/2004		Station
422.US.C1	11/017,787		AT&T Wireless	USA	12/22/2004		Integrated Number- Phase 1
301.US.C1(1)	11/036,159		AT&T Wireless	USA	1/18/2005		Method and Apparatus for Message Transmission Verification

.

70932 MAY 0 2 2006

### Supporting Documentation Showing Evidence of Chain of Title for Patent Applications

White following documents represent evidence of the chain of title of all AT&T Wireless application to Cingular Wireless II, LLC.

- New Cingular Wireless Services, Inc. Secretary Certificate signed by Caroline Wilder, Assistant Secretary. This document certifies the following:
  - a) Agreement and Plan of Merger was entered into by AT&T Wireless Services, Inc. (ATTW), Cingular Wireless Corporation, Cingular Wireless, LLC and Links I Corporation whereby ATTW would be merged in to Links I. Whereby ATTW would be the survivor of the merger.
  - b) A true and correct copy of the Certificate of merger filed with the Delaware Secretary of State is attached and remains in effect.
  - c) As a result of the merger, ATTW becomes a wholly owned subsidiary of Cingular Wireless, LLC.
  - d) The name of ATTW was changed to New Cingular Wireless Services, Inc. on 10/24/2004.
  - e) A true and correct copy of the name change of ATTW is attached and remains in effect.
- A true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State.
- 3) A true and correct copy of the name change of ATTW.
- 4) A true and correct copy of the <u>Certificate of Conversion</u> showing change of status of CWII, Inc to CWII, LLC.

### NEW CINGULAR WIRELESS SERVICES, INC.

### SECRETARY'S CERTIFICATE

I, Carolyn J. Wilder, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of New Cingular Wireless Services, Inc., a Delaware corporation, and as such I am authorized to execute this certificate. In such capacity, I further certify that:

- 1. An Agreement and Plan of Merger (the "Agreement") dated as of February 17, 2004 was entered into by and among AT&T Wireless Services, Inc., Cingular Wireless Corporation, Cingular Wireless LLC and Links I Corporation, a wholly-owned subsidiary of Cingular whereby AT&T Wireless Services, Inc. would be merged into Links I Corporation upon the terms and conditions of the Agreement, and AT&T Wireless Services, Inc. would be the survivor of the merger.
- 2. The merger of AT&T Wireless Services, Inc. into Links I Corporation was consummated on October 26, 2004.
- 3. The attached Exhibit "A" is a true and correct copy of the Certificate of Merger filed with the Delaware Secretary of State and that said Certificate of Merger remains in full force and effect on the date hereof.
- 4. As a result of the consummation of the merger, AT&T Wireless Services, Inc. became a wholly-owned subsidiary of Cingular Wireless LLC.
- 5. The name of AT&T Wireless Services, Inc. was changed to New Cingular Wireless Services, Inc. on October 26, 2004.
- The attached Exhibit "B" is a true and correct copy of the Certificate of Amendment to The Certificate of Incorporation of AT&T Wireless Services, Inc. changing the name of the corporation to New Cingular Wireless Services, Inc. as filed with the Delaware Secretary of State and that said Certificate of Amendment to The Certificate of Incorporation remains in full force and effect on the date hereof.

IN WITNESS WHEREOF, I have subscribed my name as Assistant Secretary of the Company this 11<sup>th</sup> day of May, 2005.

Carolyn J. Wilder, Assistant Secretary

### Delaware

PAGE :

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"LINKS I CORPORATION", A DELAWARE CORPORATION,

WITH AND INTO "AT&T WIRELESS SERVICES, INC." UNDER THE NAME OF "AT&T WIRELESS SERVICES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 10:11 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Variet Smith Hindson

AUTHENTICATION: 3434252

DATE: 10-26-04

2131363 8100M

040725208

SEVENTH: This certificate of merger shall be effective upon its filing with the Secretary of State of the State of Delaware.

IN WITNESS WHEREOF, this Certificate of Merger has been executed by the undersigned, a duly authorized officer of the Surviving Corporation, on behalf of the Surviving Corporation as of the Atth day of October, 2004.

AT&T WIRELESS SERVICES, INC.

Bv.

Name: John D. Z. dis

The Chieffer die Officer

SEVENTH. Any action required or permitted to be taken by the holders of Common Stock of the corporation, including but not limited to the election of directors, may be taken by written consent or consents but only if such consent or consents are signed by all holders of Common Stock.

EIGHTH. A director of the corporation shall not be liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except to the extent that such exemption from liability or limitation thereof is not permitted under the Delaware General Corporation Law as currently in effect or as the same may hereafter be amended. No amendment, modification or repeal of this Article EIGHTH shall adversely affect any right or protection of a director that exists at the time of such amendment, modification or repeal.

Delaware

PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AT&T WIRELESS SERVICES, INC.", CHANGING ITS NAME FROM "AT&T WIRELESS SERVICES, INC." TO "NEW CINGULAR WIRELESS SERVICES, INC.", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 11:01 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Daniet Smith Hindson

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3434831

DATE: 10-26-04

2131363 8100

040770545

State of Delaware Secretary of State Division of Corporations Delivered 11:23 &M 10/26/2004

### CERTIFICATE OF AMENDMENT FILED 11:01 AM 10/26/2004 TO THE SRV 040770545 - 2131363 FILE

### CERTIFICATE OF INCORPORATION OF

AT&T WIRELESS SERVICES, INC.

AT&T Wireless Services, Inc., a corporation organized and existing under and by virtue of the Delaware General Corporation Law (the "Corporation"), does hereby certify:

FIRST:

That on October 2, 2004, the Board of Directors of the Corporation adopted resolutions setting forth a proposed amendment to the Certificate of Incorporation of the Corporation, declaring said amendment to be advisable and submitting the proposed amendment to the sole stockholder of the Corporation for its consideration and approval. The proposed amendment is as follows:

NOW, THEREFORE, BE IT RESOLVED, that the Certificate of Incorporation of the Corporation be amended by deleting the first paragraph in its entirety and replacing it with a new first paragraph to read as follows:

"FIRST. The name of the corporation is New Cingular Wireless Services, Inc."

SECOND:

That thereafter on October 2, 2004, said amendment was duly adopted by written consent of the sole stockholder of the Corporation in accordance with the provisions of Sections 228 and 242 of the Delaware General Corporation Law.

[Signature on following page]

IN WITNESS WHEREOF, AT&T Wireless Services, Inc. has caused this Certificate of Amendment to be signed by a duly authorized officer this 20 day of October, 2004.

AT&T WIRELESS SERVICES, INC.

Name: Cardon Tudded

Title Assistant Scuretary

PAGE 1

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "CINGULAR WIRELESS II, INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "CINGULAR WIRELESS II, INC." TO "CINGULAR WIRELESS II, LLC", FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Warriet Smith Windson, Secretary of State

3858251 8100V

040774599

AUTHENTICATION: 3437873

DATE: 10-27-04

Ø007/012

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

### CERTIFICATE OF CONVERSION OF CINGULAR WIRELESS II, INC. TO BECOME A LIMITED LIABILITY COMPANY

Pursuant to the provisions of Section 266 of the Delaware General Corporation Law and Section 18-214 of the Delaware Limited Liability Company Act, Cingular Wireless II, Inc., a Delaware corporation (the "Corporation"), submits the following Certificate of Conversion:

- 1. The name of the Corporation is Cingular Wireless II, Inc.
- The date on which the Corporation's original Certificate of Incorporation was filed with the Secretary of State is September 22, 2004.
- 3. The name of the limited liability company into which the Corporation is being converted is Cingular Wireless II, LLC.
- 4. The conversion has been approved by written consent of the sole stockholder of the Corporation pursuant to Section 228 of the Delaware General Corporation Law in accordance with the provisions of Section 266 of the Delaware General Corporation Law.
- 5. The conversion shall be effective at 8:45 p.m. EDT on October 27, 2004.

[Signature on following page]

### THIS PAGE BLANK (USF"

IN WITNESS WHEREOF, Cingular Wireless II, Inc. has caused this Certificate of Conversion to be executed by a duly authorized officer this  $27^{th}$  day of October, 2004.

CINGULAR WIRELESS II, INC.

ly. \_\_\_\_\_\_

-2-



PAGE 2

### The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "CINGULAR WIRELESS II, LLC" FILED IN THIS OFFICE ON THE TWENTY-SEVENTH DAY OF OCTOBER, A.D. 2004, AT 10:27 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF
THE AFORESAID CERTIFICATE OF FORMATION IS THE TWENTY-SEVENTH DAY
OF OCTOBER, A.D. 2004, AT 8:45 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Warriet Smith Hindson Harrier Smith Windson Secretary of State

arriet Smith Windsor, Secretary of State

AUTHENTICATION: 3437873

DATE: 10-27-04

3858251 8100V

040774599

State of Delaware Secretary of State Division of Corporations Delivered 10:47 AM 10/27/2004 FILED 10:27 AM 10/27/2004 SRV 040774599 - 3858251 FILE

### CERTIFICATE OF FORMATION OF CINGULAR WIRELESS IL, LLC

- 1. The name of the limited liability company is Cingular Wireless II, LLC.
- 2. The address of its registered office in the state of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
- 3. This Certificate of Formation shall be effective at 8:45 p.m. EDT on October <u>27</u>, 2004.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation of Cingular Wireless II, LLC this 27<sup>th</sup>day of October, 2004.

Scott L. O'Melia An Authorized Person

### This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:	
	☐ BLACK BORDERS
	☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
	☐ FADED TEXT OR DRAWING
	☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
	☐ SKEWED/SLANTED IMAGES
	☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
	☐ GRAY SCALE DOCUMENTS
	LINES OR MARKS ON ORIGINAL DOCUMENT
	☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

### IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.